



VIDEO SECURITY & ANALYTICS SOLUTIONS

KNOW WHAT IS HAPPENING.
ACT WITH CERTAINTY.

MISSION-CRITICAL ECOSYSTEM

Motorola Solutions has created the mission-critical ecosystem built for Public Safety and Commercial Business. It shares knowledge across your entire operation to enable powerful collaboration, streamline workflows and drive performance. A single platform — where communications, software, video and services operate seamlessly together — reveals insights to drive meaningful change.





VIDEO SECURITY & ANALYTICS

KNOW WHAT
IS HAPPENING.
ACT WITH
CERTAINTY

Our expansive portfolio of cameras, access control, infrastructure and management software is combined with powerful, AI-enabled analytics that take your video system from passive observer to active partner.

With high-definition cameras that continuously scan, analyze and learn from their environment, you will get unprecedented visual detail combined with situational awareness to inform the best response.

Investigations that once took hours or days, now take minutes with advanced search capabilities and integrations across the ecosystem that enable effortless sharing and collaboration.

At Motorola Solutions, we create a safer world.

SEE WHAT
YOU CAN'T SEE.

BE WHERE
YOU CAN'T BE.

KNOW WHAT
YOU DON'T KNOW.

VIDEO SECURITY AND ANALYTICS SOLUTIONS GIVE YOU
EYES ON SCENE & **HELP REVEAL NEW INSIGHTS.**



SOLUTIONS FOR COMMERCIAL BUSINESS

RISK GROWS IN THE GAPS

The lack of visibility to what's happening in your business creates inefficiencies, leads to poor decision making and allows risk to thrive.

We're shaping the future of business with an adaptable network of cameras with built-in intelligence to bring forward the information enterprises need to do their work. Fixed and mobile security solutions capture the critical details that our integrated analytics platform scans to identify the relevant information to share across the organization.

When analytics work for you to identify patterns, hotspots and unusual activities, you have the knowledge to protect your business and to grow. Our vision is to turn the masses of data that video networks capture into a powerful engine of unprecedented insights and data-driven decision making.

So resources are better deployed, performance is driven, and risk is removed.

SOLUTIONS FOR PUBLIC SAFETY

WE DESIGN FOR THE PUBLIC SAFETY WORKFLOW

Video security and analytics enable you to know what's actually happening, anticipate what will happen next and operate with technology which focuses your attention in the most demanding moments.

Our vision is to make public safety agencies safer and more effective by giving visibility to security events as they occur. Fixed security cameras capture incidents on the street or indoors. Mobile body-worn and in-vehicle security solutions protect people and assets — in high-resolution detail.

Our advanced analytics identify the relevant data, providing not just information but actionable intelligence to enable seamless collaboration and shorter response times.

So more crimes can be prevented, more disasters can be averted and more cases can be solved.

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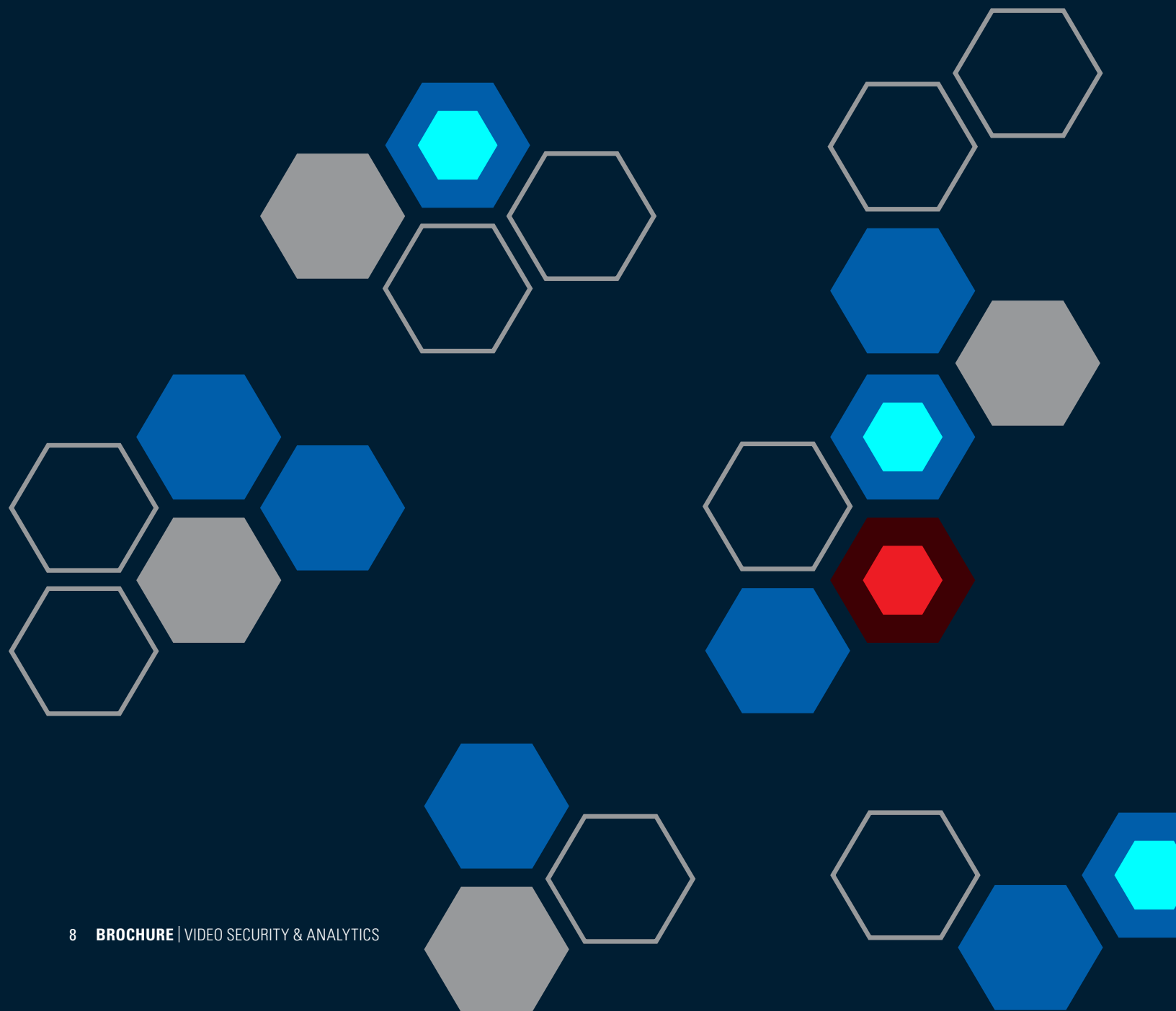
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VIDEO ANALYTICS & APPLICATIONS

FOCUS YOUR ATTENTION WHERE IT MATTERS MOST

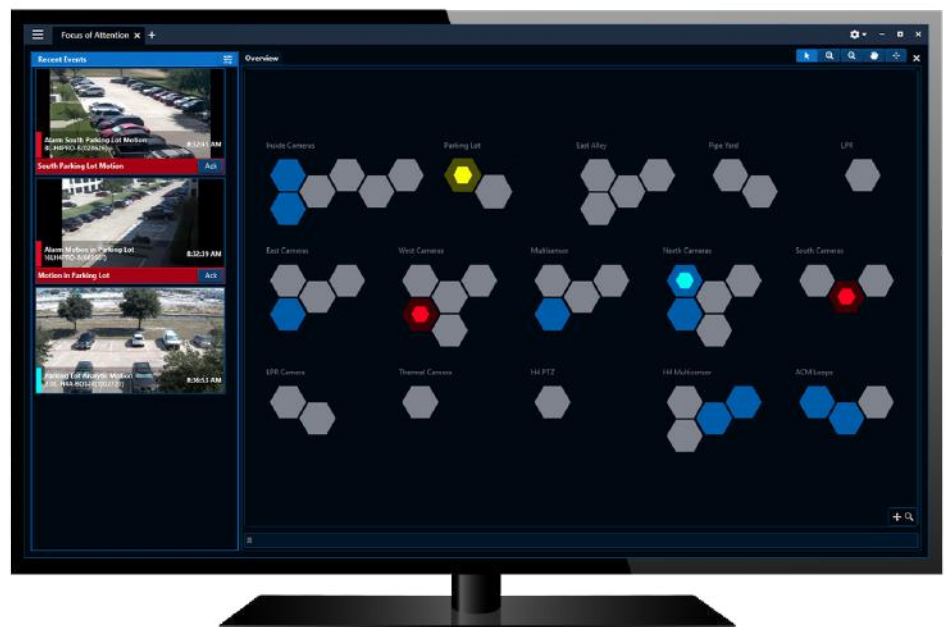


SAFER RESPONSES & FASTER INVESTIGATIONS START WITH SMARTER VIDEO

We believe video and images are only as good as the analytics behind them. While megapixels give you clarity, advanced video and image analytics deliver outcomes that stop an incident from turning into a catastrophe and enable you to quickly close the loop on an otherwise time-consuming investigation.

This is why we have embedded our best-in-class algorithms across our technology ecosystem. They are designed to quickly identify vast amounts of objects in a scene and accurately classify them — enabling real-time event detection as well as the faster searching and identification of people and vehicles of interest.

These video and image analytics increase awareness by alerting you to the existence of a trespasser in a restricted area. They improve responsiveness by matching a face or license plate to a list of known offenders. They help you quickly find a missing child or track a suspicious vehicle in a matter of minutes — not hours or days. Analytics are what take video from a passive observation tool to an active partner.





PUTTING VIDEO & IMAGE ANALYTICS TO WORK

The cornerstone of good video and image analytics relies on being able to quickly and accurately recognize a variety of different objects. We leverage convolutional neural networks to fine tune our algorithms in order to more successfully identify and classify objects such as:



PEOPLE



FACES



VEHICLES



OBJECTS



LICENSE PLATES



BULLET CASINGS

The recognition of these objects allows for specific events to be detected and searches conducted. Events can be as simple as alerting to the appearance of a particular object, such as a license plate, or as complex as the detection of unusual activity, such as the unexpected presence of an individual in a particular area. Searches can be done to see where an object appeared at a specific point in time or to compare unknown objects to a known repository for identification purposes.

PURPOSE-BUILT VIDEO ANALYTICS SOLUTIONS

We are continuously expanding our implementation of video and image analytics across our suite of technologies — within both our camera systems themselves as well as our software platforms.

AVIGILON FIXED VIDEO SECURITY SOLUTION

Our Avigilon fixed video security solutions provide our most robust analytical technology, capable of recognizing people, vehicles, faces and license plates.

Set discrete rules for specific events you want to be alerted to, including nine different types of motion detection, and set watchlists for the appearance of a particular face or license plate. You can also let AI take over and detect unusual activity for you. When an incident necessitates footage to be found and reviewed, the embedded analytics enable you to quickly conduct an appearance-based search for a person, vehicle, license plate or face based on a reference frame in a video or a description.



WATCHGUARD 4RE IN-CAR VIDEO SOLUTION

Unique to our law enforcement customers is our ability to conduct license plate recognition from our 4RE in-car video system. This capability provides agencies with a single solution for not only capturing valuable video evidence, but also better equipping officers for traffic stops and enabling them to more readily pursue vehicles of interest with improved situational awareness based on real-time detection and alerting of vehicles added to an agency hotlist. Passively captured plate detections can also be referenced later on by investigators looking for previous vehicle location intelligence.

FOCUS ON THE MOST IMPORTANT EVENTS, CAPTURE VALUABLE EVIDENCE & ACCELERATE RESPONSE TIMES

VIGILANT INVESTIGATIVE INTELLIGENCE

FACIAL RECOGNITION

Create another layer of security in your downtown area, airport, retail center, campus, jail, or other location. Vigilant FaceAlert is a software solution that monitors your existing IP video surveillance cameras, analyzes video for the presence of a human and matches them in near-real-time against a number of watchlists that you manage. Each detection also creates a thumbnail that can be retrieved by location, date or time, enhancing the utility of existing cameras by making the data more useful and easy to access for investigations.

Built to help law enforcement take real-time facial recognition capabilities a step further, Vigilant FaceSearch enables investigators to compare the face of a person of interest to a database of known offender booking images. With breakthrough pre-processing tools that give you the ability to utilize high and poor-quality probe images, our facial recognition algorithms then analyze more than 350 facial vectors to determine high-probability matches. Facial examiners can then use the narrowed down list to more quickly generate potential leads for investigators.

LICENSE PLATE RECOGNITION

Thousands of vehicle detections alone don't help; they create more work. That's why we do more than provide detections — we help with the leg work with powerful analytics that make sense of those detections, enabling agencies to develop targeted leads and close cases. Vigilant PlateSearch leverages a nationwide repository of billions of scans as well as scans from our ReaperHD mobile and fixed cameras. Law enforcement agencies can be alerted to the real-time locations of vehicles, analyze vehicle locations and start conducting more efficient investigations.

Empower your parking program with license plate recognition technologies, to improve enforcement and collect outstanding fines. Vigilant ClientPortal makes it easier and more efficient to discover scofflaw vehicles, collect outstanding fines and even conduct digital chalking or enforce access for paid and permitted parking. Leverage both the nationwide database of billions of detections as well as our ReaperHD mobile and fixed cameras to identify vehicle locations or integrate with a variety of pay station or access control vendors for automated enforcement.

BALLISTICS RECOGNITION

When fired, each firearm leaves a distinct impression that is unique to the firearm. Vigilant BallisticSearch uses patent-pending software to carefully identify and compare potential links between fired cartridge cases and firearms.

These connections help develop new investigative leads within minutes, even from the crime scene. Quickly image shell casings with our super-portable camera so Firearm Examiners can then conduct side-by-side comparisons, with features for annotations and reporting, against potential cartridges from our nationwide gallery and determine linkages.

RESPONSIBLE APPLICATION OF AI

Our video and image analytics are just one piece of the Motorola Solutions portfolio that leverage AI. In addition to the core tenets of fairness, privacy, understandability and reliability, we have adopted three principles that guide our use of AI technology.

HUMAN IN THE LOOP

We believe that the best use of AI is to assist and accelerate human decision-making, not replace it. Our solutions are advisory in nature and will never take consequential actions on their own.

FOCUSED APPLICATION

Our experience working closely with public safety and enterprise organizations helps us to isolate specific areas of the workflow where AI can help users accomplish tasks faster and more successfully.

MATURE AI

By isolating an understood portion of the workflow, we can apply proven AI components. Using the simplest and most mature solutions makes the AI more predictable and reliable.



MOBILE VIDEO SOLUTIONS

SITUATIONAL AWARENESS
FOR ENHANCED SAFETY &
OPTIMIZED RESPONSE



FROM THE FRONT
LINE TO THE
CONTROL ROOM:
**ALWAYS ON,
ALWAYS
CONNECTED**

FOR COMMERCIAL BUSINESS

Commercial organizations need a mobile video security solution that protects people and proves professionalism. Next-generation body-worn cameras from Motorola Solutions capture high-quality audio and video from the wearer's perspective.

Seamless integration with existing video management infrastructure via WiFi enhances situational awareness in the control room, delivering a powerful new narrative and enabling a smarter response.

THE CONNECTED
POLICE OFFICER:
**IN THE CAR,
ON FOOT &
AT THE STATION**

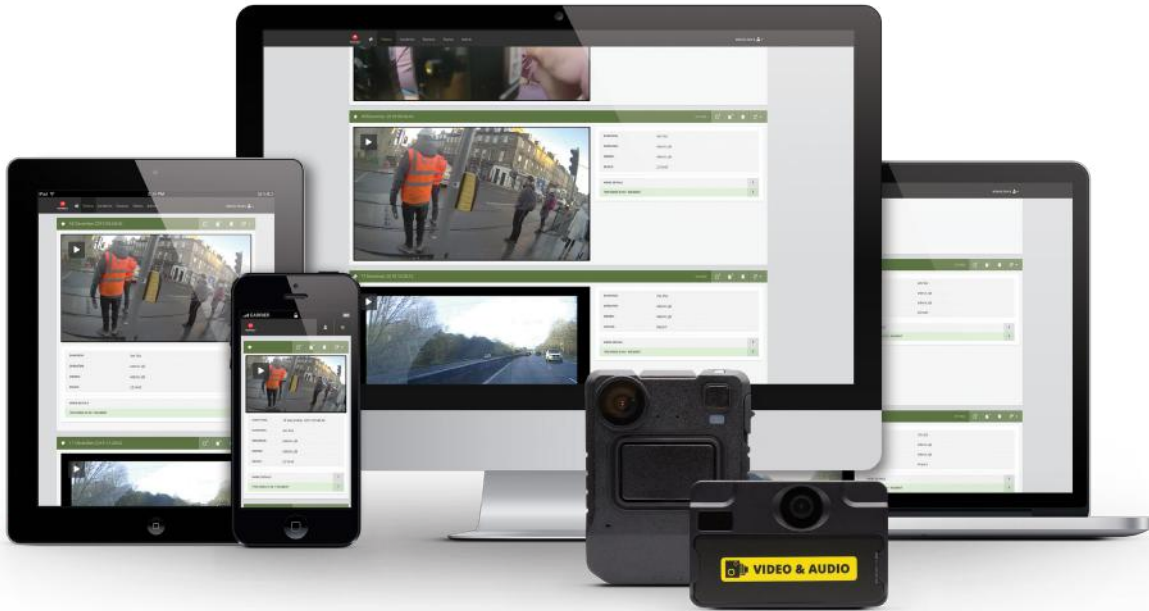
FOR PUBLIC SAFETY

Law enforcement agencies looking to capture critical video evidence demand an integrated system that works for their officers.

The WatchGuard mobile video system is designed for this connected officer. Automatic wireless activation keeps the officer focused on the task at hand. High-quality audio and video synchronize across all cameras, both in-car and body-worn. Incidents can be captured on-scene and automatically uploaded for review by command staff.

BODY-WORN VIDEO

FOR COMMERCIAL BUSINESS



VIDEOMANAGER SOFTWARE

VideoManager is an advanced software tool for managing mobile video footage, users, and your suite of body-worn cameras. This web-based back office gives you complete camera control and enables you to view footage from third-party cameras, making the creation of evidence-ready footage fast, simple and secure.



BUILT-IN SECURITY

Audit logs let you track every user action performed on VideoManager. Two-factor authentication protects against unauthorized user access and access control keys stop unauthorized devices from connecting to VideoManager.



WORKFLOW CONTROL

Defined user permissions can be tailored to control system access while collaboration and sharing functionality streamlines incident creation. Footage deletion policies can be set to suit the needs of your organization.



EASY INTEGRATION

ONStream feature allows live streaming from the body-worn cameras directly to your video management software. Viewing your body-worn camera and fixed video footage together enables you to respond quickly to events as they unfold.



EVIDENTIAL PROCESSING

Quickly create evidence-ready footage using VideoManager's redaction tools without altering the original footage. VideoManager lets you collate evidential footage using non-video media to build compelling incident collections.



VT100

Designed to complement your current security function, providing additional body-worn protection to staff throughout any organization. The VT100 can capture up to 3 hours of audio and video when it matters most.

BATTERY LIFE

Can remain on standby for up to six months prior to activation.

ONSTREAM COMPATIBLE

Footage can integrate with any ONVIF® compliant video management software via ONStream, showing your fixed video and body worn footage as one.

NO TRAINING REQUIRED

Intuitive and simple to use. RFID swipe to assign, press to action the record, dock to offload footage.

AUDIO CAPTURE

Standard audio configuration is near field capture with background noise reduction.



VB400

The VB400 represents the next generation of body-worn camera technology. Rugged build quality. Shift long recording. Multiple ways to connect. Delivering the features you need to take control of every situation.

CAPTURES EVERY DETAIL

Advanced, wide-angle 1080p lens lets the wearer capture the whole picture as events unfold — even in low-light conditions.

BATTERY LIFE

Can record for up to 12 hours, ensuring it is always ready to capture evidential quality footage.

PRE-RECORD

Delivers up to two minutes of continuous pre-recording, with a configurable pre-record period.

PEER-ASSISTED RECORDING

Can be configured to start recording when other VB400 cameras are activated within 10 metres.

BODY-WORN VIDEO

FOR PUBLIC SAFETY



EVIDENCE LIBRARY VIDEO MANAGEMENT SOFTWARE

The industry standard for evidence management, Evidence Library offers an incredibly versatile platform, with cloud, on-premise and options for managing, storing and sharing evidence. Evidence Library automatically links video and audio captured by WatchGuard mobile video devices, and then synchronizes playback so recorded video and audio from multiple devices can be seen and heard simultaneously.



RECORD-AFTER- THE-FACT

Never miss an incident with our patented Record-After-the-Fact® (RATF) technology. You have the power to go back in time and record an event, even when the officer didn't press record.



CLOUD-SHARE

Stop burning DVDs to share evidence. Because of cloud technology, you can distribute and share digital evidence simply.



WATCH COMMANDER

Want complete situational awareness for your command staff? This live-streaming software lets you see and hear what's happening as a situation unfolds.



SMARTCONTROL

Manage V300 features, view and categorize recorded events, or stream live video using a WiFi-enabled mobile device.



REDACTIVE

Our simple-to-use yet extraordinarily powerful redaction software quickly scans the entire video clip first, automatically detecting faces, people, vehicles, and license plates, so the user spends less time manually performing the task.



WATCHGUARD V300

The WatchGuard V300 continuous-operation body camera is the first in the industry to address law enforcement's need for cameras that remain operational beyond a 12-hour shift.

DETACHABLE BATTERY

Easily change the V300's rechargeable battery while on the go. Officers can keep an extra battery at the ready for unexpectedly long shifts, extra shifts or part-time jobs where a body camera is required.

AUTOMATIC WIRELESS UPLOADING

Send critical video back to headquarters while still in the field. The V300 uploads to cloud-based or on-premise evidence management systems via wireless networks like LTE and FirstNet, anytime, anywhere.

ABSOLUTE ENCRYPTION

Elevate your data security with encryption at-rest and in-transit technology. CJIS-compliant V300 guards your data and your reputation.

INTEGRATED WITH IN-CAR SYSTEM

One or more V300 cameras and a 4RE in-car system can work seamlessly as a single system, capturing synchronized video of an incident from multiple vantage points.

NATURAL FIELD OF VIEW

Reduce the fisheye effect from wide-angle lenses that warps video footage. Our distortion correction technology provides a clear and complete evidence review process.

IN-VEHICLE VIDEO

FOR PUBLIC SAFETY



4RE IN-CAR VIDEO SYSTEM

The most deployed in-car video system within U.S. law enforcement. The 4RE in-car system is ultra-rugged and highly extensible, helping protect agencies' investment well after initial deployment. The system integrates seamlessly with body-worn cameras, automatically uploads recorded events over wireless networks like LTE and FirstNet, and uses high-definition cameras to detect license plates on vehicles during traffic stops.



4RE RUGGED IN-CAR RECORDER

Ensuring you never lose a recording means having a back-up plan that ensures you don't. The 4RE's dual drive architecture automatically writes active recordings to both an internal Solid State Hard Drive (SSHD) and removable USB Flash Drive, providing the perfect back-up plan. The USB is fully secured behind a locking cast zinc door and can be removed for secure manual transfer.



4REM MOTORCYCLE VIDEO SYSTEM

The industry-leading features of the 4RE® in-car system integrated with a weatherproof camera designed to withstand the harsh environments experienced by motorcycle fleets.



PANORAMIC X2 CAMERA

Dramatically expands 4RE's video coverage in front of the patrol car by combining the stunning quality of the ZSL with an HD panoramic camera, all in one compact, rugged housing. Now, you can get full coverage without losing any of the details.



ZERO SIGHTLINE (ZSL) CAMERA

Specifically designed to be mounted in front of the rearview mirror in order to ensure there is zero obstruction of the officer's line of sight. The all-digital ZSL camera utilizes a cast zinc camera body with a unique form factor that is about the size of a credit card.



HD MINI ZOOM CAMERA

12x optical zoom camera with direct controls for automatic or manual zoom and focus allow officers the ability to see license plates from nearly 40 feet away and pick up key details of a person or object from a distant position.



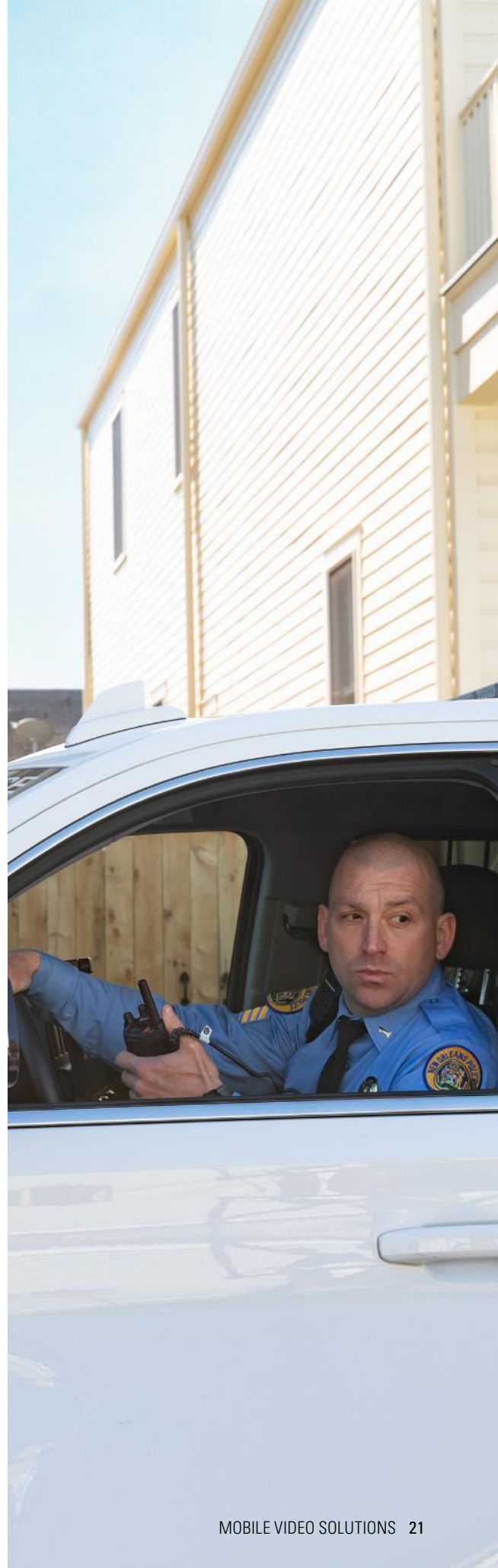
INFRARED CABIN CAMERA

Specifically designed to monitor backseat activity, the Infrared Cabin Camera has a rugged design and low profile that anticipates any law enforcement arrest. The infrared sensors mean that no matter how low the light is, security footage is captured.



SIDE OR REAR-FACING CAMERAS

Obtain a 360-degree view around the patrol vehicle by adding side and rear-facing cameras to a forward-facing camera system.



INTERVIEW ROOM SOLUTIONS



4RE INTERVIEW ROOM SYSTEM

Interview suspects with confidence, knowing critical confessions and statements will never be missed using the trusted security of 4RE and RATF technology. Our interview room recording system can conveniently package all your interview room video and audio with all other digital evidence in searchable case files.



LIVE REMOTE VIEWING

Live video streaming software provides remote viewing for investigators, command staff and attorneys through a networked connection.



LIGHTED EASY-ON WALL SWITCH

Provides quick and easy start and stop of recordings from the interview room.



EVIDENCE LIBRARY INTEGRATION

Video and audio are transferred via ethernet to Evidence Library, where they can be stored independently as part of case files along with other digital files including video events from 4RE in-car and motorcycle video systems.



COVERT AND TRADITIONAL CAMERAS

Traditional dome security camera, covert motion sensor hidden camera and covert pinhole camera.

FIXED VIDEO & PHYSICAL SECURITY

PROTECT WHAT'S MOST VALUABLE –
YOUR PEOPLE, PROPERTY AND ASSETS



SAFETY &
EFFICIENCY
START WITH
SMART VIDEO

INTELLIGENT VIDEO SOLUTIONS

Video alone doesn't help you detect an intruder, find a missing person or apprehend a suspect. Video solutions are designed to assist the people whose job it is to monitor for these events.

But with more cameras recording than ever, understanding what's valuable and what's not is becoming harder. Our fixed video solutions are designed to help you focus on the most important events, accelerate response times and capture valuable evidence.

By combining trusted hardware with innovative user experiences and AI-enabled video analytics, we empower you with the technology you need to be successful. Potentially critical events can be flagged before they become threats, responsive action can be taken before a crisis occurs, and investigations can be conducted in minutes rather than days.



PUBLIC SAFETY

DETECT & VERIFY THREATS WITH MORE CERTAINTY

From traffic stops to domestic terrorism, law enforcement has come to depend on video footage as part of the response and investigative process more than ever. But video is only a piece of the puzzle.

With CommandCentral, agencies can create a common operating picture of voice, video and data. To keep critical incidents from worsening and respond quickly, they need to be alerted to potential threats in real-time.

Relevant video evidence can be easily found and shared when needed, helping avoid delays during investigation. It's time to phase out the age of endless hours of monitoring and searching video footage.

The advent of AI-enhanced video solutions has made it easier and more effective for law enforcement agencies and the public to work together to fight crime.



VIDEO MANAGEMENT SOFTWARE



AVIGILON CONTROL CENTER (ACC) SOFTWARE

ACC™ 7 is the latest and most advanced version of ACC video management software. Designed to bring the right information to you so that you can take action, ACC 7 software provides an easy-to-use, AI-enabled user interface to help ensure critical events do not go unnoticed.



POWERED BY AI FOR FAST & EFFICIENT SEARCH

The bookmark, event, alarm and thumbnail search options in ACC software are designed to enhance the way you interact with your systems, improve event response times and help make video actionable.



ENABLED FOR MOBILE

The ACC Mobile 3 app gives you the ability to monitor event alerts and video from your mobile device. Alerts can be sent directly to you and your team within seconds on mobile devices with the app installed.



CYBERSECURITY

ACC security measures include strong password enforcement, connection authentication and data encryption, as well as strict user permissions to access search functionality that uses personally-identifiable information.



PRIVACY PROTECTION

Blurred Export helps support compliance with new data protection and privacy requirements by allowing you to export Avigilon Appearance Search results in ACC software while blurring the background of the camera view to feature only the person of interest in the video.

ADVANCED AI TECHNOLOGIES

FOCUS OF ATTENTION (FOA) INTERFACE

A cutting-edge user interface for live video monitoring that leverages AI and video analytics technologies to determine what information is important and should be presented to security operators.

UNUSUAL MOTION & ACTIVITY DETECTION

Advanced AI technology that highlights the unanticipated by automatically flagging unusual motion and activity. This edge-based intelligence technology distinguishes between typical and atypical events by continuously learning from observation of scenes over time. Unusual Motion Detection (UMD) detects atypical movement, while Unusual Activity Detection is object-aware and detects the anomalous behavior (speed and location) of people and vehicles.

FACIAL RECOGNITION

ACC 7 software incorporates AI-powered facial recognition technology to help accelerate response times by identifying people of interest. People of interest are identified based on one or more secure watch lists managed by authorized users at an organization. Avigilon cameras licensed for facial recognition will seek to identify potential matches based on these watch lists and, if a match is found, the user is alerted through the FoA interface within ACC software, helping security personnel quickly determine if further action is necessary.

ADVANCED VIDEO ANALYTICS

You can't be everywhere all the time — our self-learning video analytics solutions can monitor an area 24/7/365. They are designed to accurately recognize the movement of people and vehicles, differentiating it from motion that is not relevant to a scene.

LICENSE PLATE RECOGNITION

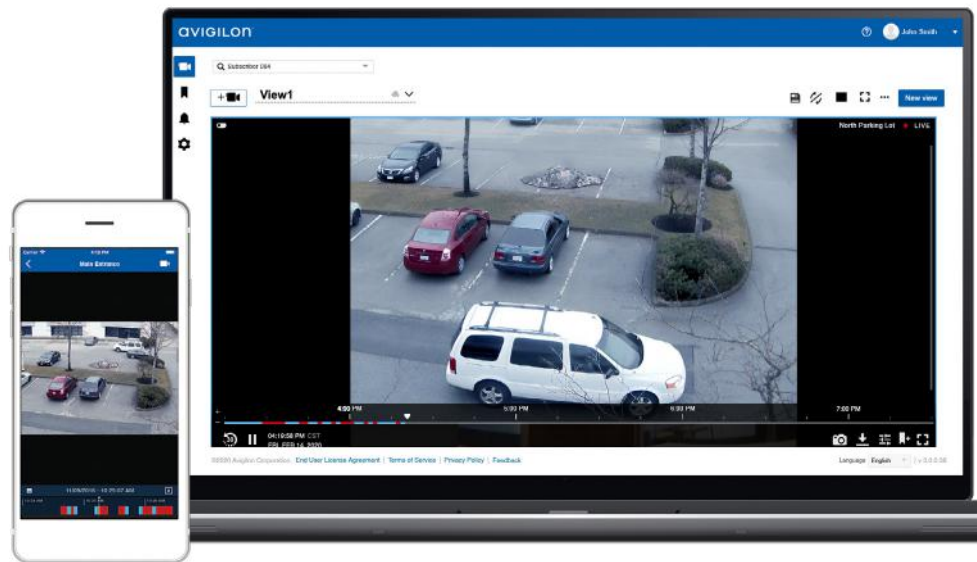
Our license plate recognition analytics technology automatically reads license plate information from vehicles, linking it to both live and recorded video. Create and import license plate watch lists for instant alarm notification when a match is detected, or search specific captured license plate video for further investigation.

AVIGILON APPEARANCE SEARCH™ TECHNOLOGY

A sophisticated AI search engine that enables investigators to sort through hours of recorded video with ease and quickly locate a person or vehicle of interest across an entire site. Search for a person or vehicle by entering a physical description or by finding an example in recorded video.

AVIGILON CLOUD SERVICES PLATFORM

Enables a modern cloud-connected user experience, accessible from a web browser. It lays the foundation for ACC customers to connect to the cloud and take advantage of capabilities and features that provide centralized access across distributed systems.



CLOUD CONNECTIVITY

Connects ACC sites to the cloud, which helps to centralize media access, system management and integrations. Our platform provides for the delivery of value-add services that helps to improve your up-time, and enhance productivity, while also strengthening your security.

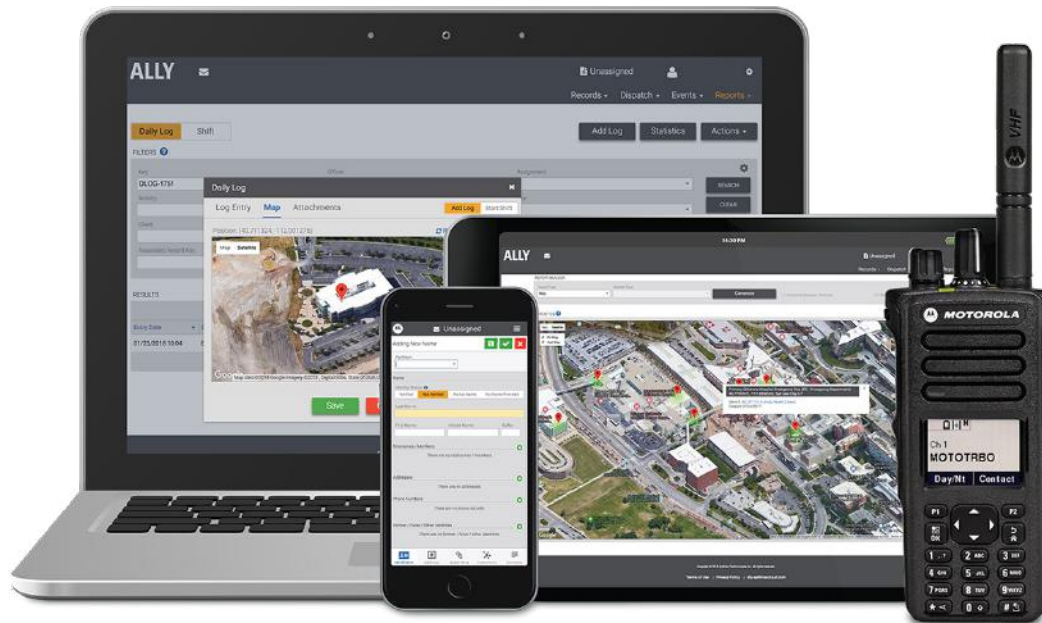
EASY REMOTE ACCESS

Simplifies the management of physical security systems for customers with multi-site facilities and distributed security systems. Web client offers a cloud-connected ACC user experience, accessible from your Chrome or Safari web browser to securely access ACC over the internet with minimal or no firewall reconfiguration.

ENHANCED SECURITY

Provides timely and proactive responses to analytic alarms, sent from ACC as push notifications directly to the ACC Mobile 3 app on mobile devices.

SECURITY INCIDENT MANAGEMENT SOFTWARE



ALLY SOFTWARE

Streamline security incident management through integrated video and simplify your security operations with one, easy-to-use platform. Ally allows your team to manage incident records and video, communicate instantly across devices, and make proactive planning decisions. Now, alarms triggered in Ally through integration with Avigilon can be viewed quickly and pushed into a dispatch workflow with just the touch of a button, saving your team time.



MASS NOTIFICATION

Notify and mobilize critical resources in a moment's notice. Deliver automatic and routine information to your employees via mobile app, phone, email, SMS and paging.



LEARN & TRAIN QUICKLY

Ally can be implemented in as little as three hours, and the intuitive design is easy to navigate for any end user.



COMMUNICATE ACROSS DEVICES

Ally makes it easy to share information and gain fast, secure and reliable push-to-talk communication across any device.



CREATE EASY & ACCURATE REPORTS

Embedded analytics and easy-to-create reports support fast trend analysis, proactive planning and reduced liability.

FIXED CAMERAS & SENSORS



avigilon



ADVANCED CAMERA TECHNOLOGIES

LOW-LIGHT IMAGE CAPTURE

LIGHTCATCHER™ TECHNOLOGY

Produces significantly more color detail from a low-light scene by increasing the amount of light and detail captured via the camera and decreasing the noise in the image. This combination results in the ability to identify objects of interest more effectively.

IR ILLUMINATION OPTIONS

Content adaptive IR technology is an effective and flexible way to capture visual detail without a visible light source. Cameras with a zoom lens offer zoom adaptive IR to help ensure uniform illumination over the entire imaging area at a wide range of zoom distances.

BANDWIDTH MANAGEMENT

HIGH DEFINITION STREAM MANAGEMENT (HDSM) TECHNOLOGY

Reduces bandwidth from the server to the ACC Client by providing maximum image detail while minimizing bandwidth usage, helping to keep internet connectivity costs down.

HDSM SMARTCODEC™ TECHNOLOGY

Enables cameras to enhance compression levels for regions in a scene to help reduce bandwidth by up to 50% compared to standard H.264 and H.265 compression.

HIGH EFFICIENCY VIDEO CODING

Offers about double the data compression ratio at the same level of quality compared to H.264 compression and supports resolutions up to 32 MP.

INTEGRATION WITH THIRD-PARTY SYSTEMS

As an ONVIF® member, Avigilon continues to demonstrate commitment to open architecture and offering products that support interoperability with other ONVIF compliant solutions.

ONVIF PROFILE S COMPLIANCE

Meets ONVIF specifications relating to sending video data over an IP network to a Profile S client, as well as other functions like PTZ control, audio in, multicasting and relay outputs.

ONVIF PROFILE T COMPLIANCE

Supports advanced video streaming features such as the use of advanced encoding formats, imaging settings and alarm events such as motion and tampering detection, in addition to the functionalities required for Profile S compliance.

ONVIF PROFILE G COMPLIANCE

Designed for IP-based video systems, Profile G compliance includes devices that can record video data over an IP network or on the device itself. This compliance level also includes support for receiving audio and metadata stream, if supported by the client.



H5A CAMERAS

FEATURING NEXT-GENERATION AVIGILON VIDEO ANALYTICS

The Avigilon H5A camera line features our next-generation video analytics technology which can detect more objects with greater accuracy even in crowded scenes, whether objects are stationary or moving.

RESOLUTION OPTIONS 8 MP 6 MP 5 MP 4 MP 2 MP

KEY FEATURES



Next-Generation Video Analytics



Industry-Leading 5-Year Warranty



Weather & Impact Rated¹



LightCatcher Technology²



H.265 & HDSM SmartCodec Technology



ONVIF Profile S Compliant



Wide Dynamic Range Support³



Automatic IR Cut Filter⁴



ONVIF Profile T Compliant



Remote Zoom and Focus



Content Adaptive IR⁵



H5A EXPLOSION-PROTECTED CAMERAS

RUGGED AND RELIABLE SOLUTION FOR HAZARDOUS LOCATIONS

Avigilon H5A Explosion-Protected cameras are certified for hazardous locations according to applicable international standards. They are purpose-built for efficient operational monitoring and control of processes in environments that face the risk of explosions due to the presence of flammable gases or dust, including oil and gas, marine, industrial and food production sites.

RESOLUTION OPTIONS 6 MP 2 MP

KEY FEATURES



Next-Generation Video Analytics



Explosion Protection



High Temperature Range



LightCatcher Technology



H.265 & HDSM SmartCodec Technology



ONVIF Profile S Compliant



Wide Dynamic Range Support



Automatic IR Cut Filter



ONVIF Profile T Compliant



¹ Applies to H5A Bullet camera and outdoor model of H5A Dome camera only

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

³ For H5A Box and H5A Bullet cameras, wide dynamic range technology is available on 1 MP to 3 MP models only

⁴ Automatic IR cut filter available on H5A Box camera only

⁵ Content Adaptive IR available only on H5A Bullet camera and as an optional feature for H5A Dome camera



H5M CAMERA

OUTDOOR DOME CAMERA

The Avigilon H5M camera provides a cost-effective solution for budget-conscious video security projects and is beneficial for sites that require a small footprint camera for outdoor use.

RESOLUTION OPTIONS 5 MP 2 MP

KEY FEATURES



Unusual Motion Detection Technology



Industry-Leading 5-Year Warranty



ONVIF Compliant



LightCatcher Technology



H.264 & H.265 HDSM SmartCodec Technology



Wide Dynamic Range



Weather & Impact Rated



H4 MINI DOME

SMALL & DISCREET WITH A MODULAR DESIGN

Ideal for your most space-constrained areas and designed for fast and easy installation, the H4 Mini Dome camera provides exceptional features and image quality at an entry-level price point.

RESOLUTION OPTIONS 3 MP 2 MP 1.3 MP

KEY FEATURES



Unusual Motion Detection Technology



Content Adaptive IR



ONVIF Profile S Compliant



Dual Exposure Wide Dynamic Range



HDSM SmartCodec Technology



ONVIF Profile T Compliant



H5SL CAMERAS

VALUE AND VERSATILITY, COMBINED

A versatile and cost-effective security solution — offering ease of installation, flexible design features and various lens options — that is backed by an industry-leading warranty.

RESOLUTION OPTIONS 5 MP 3 MP 2 MP 1 MP

KEY FEATURES



Unusual Motion Detection Technology



Industry-Leading 5-Year Warranty



Content Adaptive IR



LightCatcher Technology



H.265 & HDSM SmartCodec Technology



ONVIF Profile S Compliant



Dual Exposure Wide Dynamic Range



Automatic IR Cut Filter



ONVIF Profile T Compliant



Multiple Lens Options



Audio & Relay I/O Connections



H4 THERMAL CAMERAS

SEE BEYOND THE VISIBLE SPECTRUM

Detect the movement of people and vehicles even in areas with poor visibility, challenging lighting conditions, absolute darkness and partly camouflaged scenes — without the need for additional light sources.

RESOLUTION 320x256

KEY FEATURES



Self-Learning Video Analytics



Weather & Impact Rated



HDSM SmartCodec Technology



Multiple Athermalized Lens Options



HDSM SmartCodec Technology



ONVIF Profile S Compliant



H4 PRO CAMERAS

OUR HIGHEST RESOLUTION CAMERAS

H4 Pro cameras capture high-quality, detailed images over vast areas, making them ideal for stadiums, ports and critical infrastructure. They're built on the H4 platform to deliver greater processing power, increased frame rates and improved image quality, while intelligently managing storage and bandwidth.

RESOLUTION OPTIONS 30 MP 24 MP 16 MP 12 MP 8 MP

KEY FEATURES



Self-Learning Video Analytics¹



LightCatcher Technology



Onboard Storage



HDSM™ 2.0 and HDSM SmartCodec Technologies



ONVIF Profile S Compliant¹



H4 LICENSE PLATE CAPTURE CAMERA KIT

ACCURATE LICENSE PLATE CAPTURE AT A RANGE OF DISTANCES & SPEEDS

For applications where it's critical to obtain character recognition at vehicle speeds up to 100 km/hr (62 mph), from a range of distances, even in challenging lighting conditions.

RESOLUTION OPTIONS 3 MP

KEY FEATURES



Content Adaptive IR



ONVIF Profile S Compliant



Weather & Impact Rated



Remote Zoom and Focus



H4ES CAMERAS

CAMERA, NVR & VIDEO MANAGEMENT SOFTWARE — ALL IN ONE

Combines high-definition imaging, self-learning video analytics, network video recorder functionality with up to 256 GB on-board solid-state drive and embedded ACC software to create an all-in-one Avigilon intelligent security solution.

RESOLUTION OPTIONS 3 MP 2 MP 1 MP

KEY FEATURES



Self-Learning Video Analytics



Solid State Drive



Weather & Impact Rated



LightCatcher Technology³



HDSM SmartCodec Technology



ONVIF Profile S Compliant



Wide Dynamic Range Support



Automatic IR Cut Filter



ONVIF Profile T Compliant



Remote Zoom and Focus



Content Adaptive IR



¹ Automatic IR cut filter available on H5A Box camera only

² Content Adaptive IR available only on H5A Bullet camera and H5A Dome camera



H4 MULTISENSOR CAMERAS

EXCEPTIONAL SCENE COVERAGE & SELF-LEARNING VIDEO ANALYTICS

Provides exceptional scene coverage and high image detail with three or four individually-configurable camera sensors that can be positioned to monitor virtually any area.

RESOLUTION OPTIONS **4-SENSOR** 32 MP 20 MP 12 MP **3-SENSOR** 24 MP 15 MP 9 MP

KEY FEATURES



Self-Learning Video Analytics



Weather & Impact Rated



Content Adaptive IR¹



LightCatcher Technology



H.265 & HDSM SmartCodec Technology



ONVIF Profile S Compliant



Wide Dynamic Range



Automatic IR Cut Filter



ONVIF Profile T Compliant



H4 FISHEYE CAMERA

CAPTURE A COMPLETE PANORAMIC SCENE WITHOUT BLIND SPOTS

A cost-effective, easy-to-install solution that is designed to provide broad, high-definition coverage with fewer cameras and is available in 6 and 12 MP resolutions featuring exceptional frame rates up to 30 FPS.

RESOLUTION OPTIONS 12 MP 6 MP

KEY FEATURES



LightCatcher Technology³



Weather & Impact Rated



ONVIF Profile S Compliant



Content Adaptive IR



HDSM SmartCodec Technology



ONVIF Profile T Compliant



H4 IR PTZ CAMERA

PTZ CONTROL WITH ADVANCED IR PERFORMANCE

Zoomable IR technology — with a 250-meter (820-foot) illumination range — provides broad coverage and exceptional image quality in a range of lighting conditions and environments, including the rain. 1 MP model offers 45x zoom and 2 MP model offers 30x zoom.

RESOLUTION OPTIONS 2 MP 1 MP

KEY FEATURES



Self-Learning Video Analytics



Weather & Impact Rated



Zoomable IR



LightCatcher Technology³



HDSM SmartCodec Technology



ONVIF Profile S Compliant



Wide Dynamic Range



360-Degree Continuous Rotation



H4 PTZ CAMERA

POWERFUL, HIGH-SPEED TRACKING WITH 360° COVERAGE

1 MP model offers 45x zoom and 2 MP model offers 30x zoom for high-quality, detailed images.

RESOLUTION OPTIONS 2 MP 1 MP

KEY FEATURES



Self-Learning Video Analytics



Weather & Impact Rated



Content Adaptive IR



LightCatcher Technology³



HDSM SmartCodec Technology



ONVIF Profile S Compliant



Wide Dynamic Range



360-Degree Continuous Rotation



H4 VIDEO INTERCOM

REMOTELY IDENTIFY, COMMUNICATE & AUTHORIZE ACCESS

Integrates a 3 MP camera for clear viewing and an intercom with echo-canceling technology for effective two-way communication with visitors. Combines with ACC and ACM software to create a secured entry system that enables operators to take action, whether they need to grant access, trigger a lockdown or initiate an Appearance Search for a visitor.

RESOLUTION OPTIONS 3 MP

KEY FEATURES



Self-Learning Video Analytics



Bi-Directional Audio



Weather & Impact Rated



LightCatcher Technology³



HDSM SmartCodec Technology



ONVIF Profile S Compliant



Wide Dynamic Range Support



Content Adaptive IR



AVIGILON PRESENCE DETECTOR (APD) SENSOR

ACCURATELY DETECT THE PRESENCE OF A PERSON

A small form-factor impulse radar device with self-learning radar analytics that helps to solve the challenge of human presence detection in indoor areas where traditional devices may be limited. The APD™ sensor provides extremely high accuracy at distances up to 9 meters (30 feet) from the sensor, even if the person is hidden or obstructed by objects such as blankets, cardboard, wood or drywall.

KEY FEATURES



Self-Learning Video Analytics

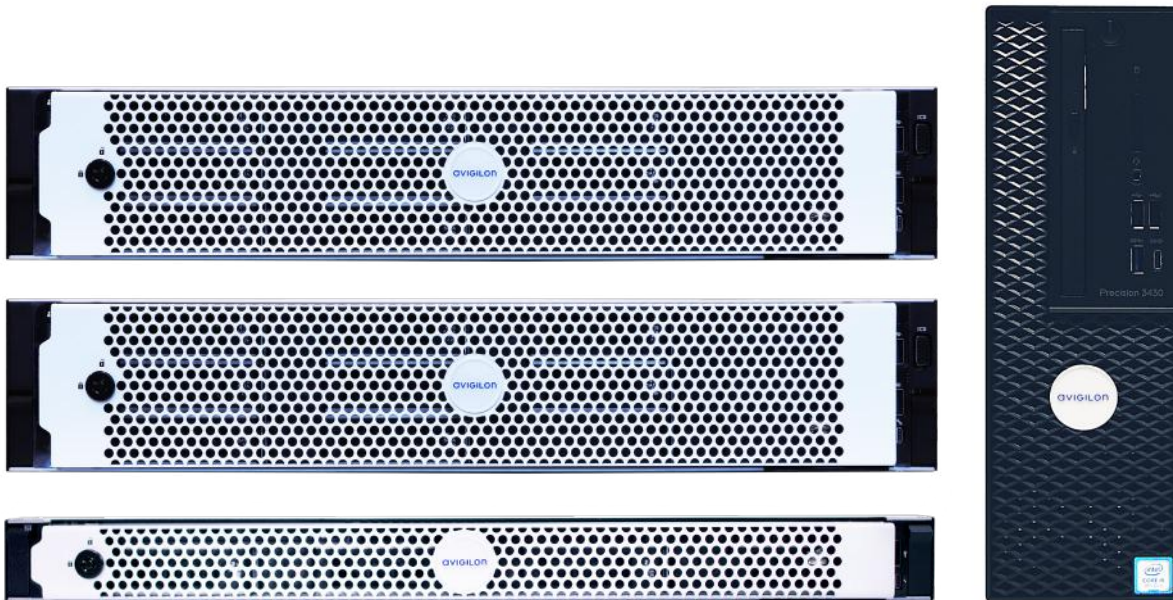


Complete Visual Privacy

VIDEO INFRASTRUCTURE



VIDEO SECURITY RECORDING SOLUTIONS



AVIGILON NETWORK VIDEO RECORDERS

Fourth-generation Avigilon Network Video Recorders (NVRs) offer our highest capacity, retention and throughput to provide secure, reliable and scalable platforms for high-performance security solutions. NVR4s come standard with optimized recording technology, a three-year Avigilon limited warranty with dedicated support and numerous additional features, including Avigilon Appearance Search technology.

NVR4 PREMIUM

Offers 64–192TB of storage for a maximum of 18 video data hard drives and enables Avigilon Appearance Search technology when used with ACC software.

NVR4 STANDARD

Offers 16–48TB of storage for a maximum of eight video data hard drives and enables Avigilon Appearance Search technology when used with ACC software.

NVR4 VALUE

Our most cost-effective NVR solution, providing 6–24TB of storage across four video data hard drives. Can be used to enable Avigilon Appearance Search technology with the addition of an optional GPU kit.

NVR WORKSTATION

Supports ultra-high resolution video storage and local viewing while providing 4–8TB of storage.

SPECIALIZED RECORDING & VIEWING DEVICES

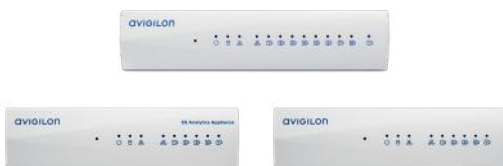
ADD VIDEO MANAGEMENT SOFTWARE,
EDGE MONITORING & ANALYTICS CAPABILITIES
FOR AN OPTIMIZED SECURITY SYSTEM



HD VIDEO APPLIANCE

ALL-IN-ONE SERVER, STORAGE SOLUTION,
WORKSTATION & NETWORK SWITCH

Our HD Video Appliances (HDVAs) are designed to help shorten installation time, simplify deployment and reduce the cost and complexity of your security system. All Avigilon HDVAs come pre-loaded with ACC software so you can be up and running in no time, plus our Pro 24-Port and 16-Port models feature advanced functionalities including replaceable power supplies and video drives, larger storage capacities and increased throughput.



ACC ES APPLIANCES

RECORD LOCALLY, VIEW CENTRALLY &
MANAGE REMOTELY

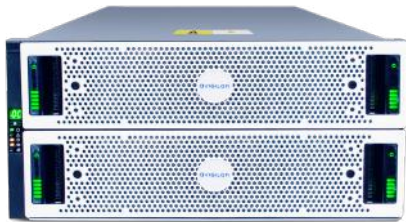
All-in-one appliances that bring edge intelligence and built-in ACC software to organizations with multiple sites and critical assets requiring protection and monitoring. ACC ES products help avoid bandwidth issues by storing 30+ days of HD video locally near the camera, so you can easily view it remotely from a central location.



ACC ES RUGGED 8-PORT APPLIANCE

RUGGED AND RELIABLE SOLUTION FOR HARSH
ENVIRONMENTAL CONDITIONS

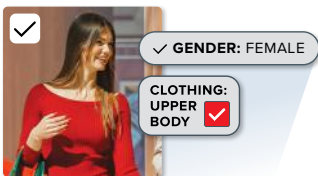
Purpose-built to meet the challenges that are commonly faced in city security, critical infrastructure and temporary security applications. As a rugged device, it incorporates a fan-less design, solid-state storage and an 8-port PoE switch, all packaged in a heavy-duty enclosure. The ACC ES Rugged 8-Port Appliance provides a reliable solution that is suited for extreme environmental conditions, without requiring the addition of expensive heating or air conditioning systems.



AVIGILON VIDEO ARCHIVE

COST-EFFECTIVE STORAGE FOR PETABYTES OF VIDEO

A scalable storage expansion solution that integrates with ACC software and Avigilon NVRs. This cost-effective, storage option provides a path for expanding video archives incrementally over time. Built with the latest storage technology, the AVA delivers exceptional reliability with near-zero downtime, ensuring your video archives are preserved for swift on-demand retrieval and review.



AI APPLIANCE

EVOLVE LEGACY CAMERA SYSTEMS INTO POWERFUL AI SOLUTIONS

Adds patented self-learning video analytics and Avigilon Appearance Search technology to any ONVIF-compliant IP camera to recognize the presence and movement of people and vehicles. Designed for high performance, capacity and resiliency, the AI Appliance features leading-edge hardware and comes in two models to support up to 60 2 MP cameras for enterprise scalability.



REMOTE MONITORING WORKSTATIONS

HIGH-PERFORMANCE SUPPORT FOR YOUR SECURITY SYSTEMS

An easy way to implement additional high-resolution monitoring stations to existing systems. Select either a two- or four-monitor workstation, pre-loaded with ACC software. Featuring a maximum resolution of 3840 x 2160 (4K) per monitor.



ACCESS CONTROL SOLUTIONS



ACCESS CONTROL SOFTWARE



AVIGILON ACCESS CONTROL MANAGER (ACM) SYSTEM

The ACM™ system is a physical access control system for enterprise-class installations, designed to help you focus on securing your people, property and assets, while giving you the flexibility to respond to alerts wherever you are. It seamlessly integrates with ACC software to provide you with a powerful and unified security solution that helps you proactively monitor and secure your sites.



GLOBAL ACCESS

The ACM system is available 24/7/365 from any internet accessible location, using any device with a browser, and can be managed by multiple operators simultaneously. All changes are automatically synced across the entire access system, displaying only the most up-to-date data.



SECURE & PROTECTED

An open-source Linux® platform provides protection against network vulnerabilities. Optional hot standby-auto failover solution automatically saves policies, settings and identities from any one primary appliance to a standby appliance.



EASY SYNCHRONIZATION & ROLE MANAGEMENT

Enforce policy restrictions, meet regulations and reduce the risk of duplicate data entry by integrating with external IT and HR identity management solutions. Map physical access to enterprise roles such as departments, locations and titles.



ENTERPRISE-CLASS ENGINEERED SOLUTIONS

Avigilon integrated solutions are engineered from the ground up with exceptional IT standards that easily integrate with an organization's existing physical or virtual IT environment.



John Smith



ACCESS CONTROL & VIDEO SOFTWARE INTEGRATIONS

Our ACM system integrates with ACC video management software to provide you with one simple, powerful and unified security solution to help you focus on what matters most.

REVIEW ACM DOOR EVENTS & CREDENTIALS

ACC software receives, processes and acts on ACM door events and hardware input events. Identity Verification feature dynamically displays ACM credentials with ACC camera views, allowing you to remotely grant door access.

IDENTITY SEARCH

Corresponds ACM credentials with Avigilon Appearance Search results, offering a new way to locate individuals across an entire site or multiple sites connected to the same ACC Client.

H4 VIDEO INTERCOM SUPPORT

The H4 Video Intercom enables operators to monitor and control access at entry points through two-way audio communication, video verification and the ability to send an ACM door grant through ACC software.

BI-DIRECTIONAL ALARM MANAGEMENT

ACC alarms work together with ACM alarms including panel / sub-panel, input / output, identity and door-related events, allowing you to acknowledge them through either ACM or ACC. The Alarm Gateway Service can be configured according to project requirements.

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ACM APPLIANCES



ACM PROFESSIONAL APPLIANCE

Provides smaller business with powerful features at a lower cost of ownership. This system is a great choice for business owners looking to start with a small desktop machine and expand as their needs change.

ACM PROFESSIONAL

Small form-factor desktop appliance
Supports 16 – 32 card readers
Max. 10 simultaneous operators
Max. 75,000 identities



ACM ENTERPRISE & ENTERPRISE PLUS APPLIANCES

Perfect for companies of all sizes looking to secure their facilities, people and assets across a variety of offices or locations. These systems include essential features for enterprise-grade businesses, provide seamless integration with existing IT and physical security systems.

ACM ENTERPRISE

1U rack-mount chassis
Supports 16 – 400 card readers
Max. 20 simultaneous operators
Max. 250,000 identities
Backup replication and hot standby auto failover

ACM ENTERPRISE PLUS

1U rack-mount chassis
Supports 256 – 2048 card readers
Max. 50 simultaneous operators
Max. 500,000 identities
Backup replication and hot standby auto failover
Hot-swap components and redundant power supply



ACM VIRTUAL APPLIANCE

Purpose-built for organizations that have migrated their IT infrastructure to a secure, private cloud environment, this Certified VMware Ready solution is designed for deployment on a virtual server, maintaining scalable design while reducing capital and operating expenditures.

ACM VIRTUAL

VMware vSphere ESX(i) 6.5+ appliance
Supports 16 – 2048 card readers
Max. 50 simultaneous operators
Max. 500,000 identities
Backup replication and hot standby auto failover

ACM SYSTEM INTEGRATIONS

FLEXIBLE,
SCALABLE
ACCESS CONTROL
TO SECURE
VIRTUALLY
ANY SITE



BIOMETRICS

The ACM system integration leverages the VIRDI solution to add biometric authentication to restricted locations and areas requiring a high level of security.

Set up biometric identities directly from ACM software through our integration with the VIRDI Biometrics Enrollment Manager interface. Simply connect the USB enrollment reader to any client machine. VIRDI Biometrics Enrollment Manager needs to be installed on a compatible windows client machine with network access to the ACM appliance.

INTRUSION PANELS

Optimize the value of access control by monitoring and controlling Bosch intrusion panels from the ACM system.

This integration brings increased security, improved accuracy and visual verification of alerts. Incorporating an integrated system enables users to monitor intrusion and access events from a single location.

From there, they can arm and disarm panels by area, set up and assign passcode groups to identities, configure the system to send access events to the central monitoring service and more.

VISITOR MANAGEMENT

EasyLobby® software from HID Global provides a secure and professional all-in-one visitor management system. Map custom fields and roles in ACM for easy visitor check-in, enabling your operation to run efficiently while protecting the security of your business.

WIRED & WIRELESS LOCK SETS



ALLEGION™

AD-400 & AD-300

AD Series electronic locks from Schlage® are designed to be modular and provide more options to choose from, more functionality in the lock and more compatibility with existing systems. Its patent-pending modular design allows the lock to be customized to fit the needs of an application now and be changed to meet future needs without removing it from the door.



NDE SERIES

NDE Series wireless locks with ENGAGE™ technology from Allegion are designed to be easy to install, connect, use and manage with the ACM system. Developed specifically for facilities that want to upgrade to electronic credentials for improved security and efficiency, NDE Series locks are ideal for use on interior office doors, common area doors and sensitive storage spaces with a cylindrical door preparation.



SCHLAGE LE SERIES

Managed with the ACM system from Avigilon, the Schlage LE wireless mortise lock with ENGAGE technology is designed to affordably extend electronic access control deeper into the building beyond traditional perimeter and high security openings.



ASSA ABLOY

APERIO™ SOLUTION

The Avigilon ACM system utilizes ASSA ABLOY Aperio Wireless Technology to reduce the cost and inconvenience of wiring in and around the access door. The Aperio solution can support a wide-range of applications, including interior office room doors, server room cabinets and storage lockers, glass, stone or brick entryways, slim aluminum entry doors and more.



REDUCED HARDWARE COSTS

Reduce the cost and complexity of added hardware by connecting the Mercury controller directly to the panel interface module, gateway or communications hub for a secure wireless path to the lock.



MODULAR DESIGN

Flexibility to customize the lock to meet the needs of the application now, and purpose-built to allow for customizing the lock rather than replacing it in the future, with little to no operational disruption.



INCREASED SECURITY

Turn any keyed door or sensitive area into a monitored access door to improve security in and around facilities.



FLEXIBLE LOCK CONFIGURATIONS

Ability to customize the reader type, chassis type, locking functions, power options, lever styles, finishes and more according to the needs of the application.

OPEN PLATFORM HARDWARE



CREDENTIALS & READERS

VIRDI FINGERPRINT SENSORS & ENROLLMENT READERS

Using human capacitance, infrared light and advanced algorithms, VIRDI fingerprint sensors are designed to quickly and accurately detect fingerprints and discern fake biometric attempts. VIRDI UNIS Software needs to be installed on a compatible windows server with network access to the Avigilon ACM appliance

AVIGILON CREDENTIALS

A multipurpose credential from Avigilon. The HID iCLASS SE® cards are designed specifically for Avigilon access control systems. With an advanced 56-bit Avigilon format, these cards provide multiple levels of security to keep your people, property and assets safe.

AVIGILON SE R10 CARD READER

A multipurpose card reader from Avigilon. The HID iCLASS SE® readers help keep security at the forefront by utilizing the latest authentication through the Secure Identity Object (SIO) data model for trusted and secure communications.



CONTROLLERS & SUB-PANELS

With hardware options for small to enterprise level systems, deploying and managing your ACM system has never been more intuitive and flexible as it is today. Installations will further benefit from a wide selection of hardware that will provide the features needed for most project requirements.

MERCURY SECURITY

Mercury Security focuses on supplying OEM hardware for access control. With more than 2.5 million control panels in operation, Mercury is one of the top players in the market. Avigilon is a Platinum Elite Mercury Partner and offers Mercury controllers, interface modules and I/O modules as part of our ACM solution.

HID GLOBAL

HID Global is a trusted leader in solutions for creation, management and use of secure identities for millions of customers worldwide. Avigilon is a Platinum HID® Partner and offers HID VertX EVO® controllers and HID VertX® interface and I/O modules as part of our ACM solution.



POWER SUPPLIES & ENCLOSURES

The Avigilon power enclosure from LifeSafety Power includes all the power needed for four, eight and 16-door applications.

These enclosures are specifically designed to house Mercury Security and HID VertX® access boards and also includes a separate 24 volt DC circuit that provides lock power within the same enclosure, saving the cost of added hardware and installation time.

ACM EMBEDDED CONTROLLER

ENTRY-LEVEL ACCESS CONTROL SYSTEM



SIMPLIFIED ACCESS CONTROL

The ACM Embedded Controller access system is browser-based and designed for securing up to 16 access doors. This solution uses open-field hardware from HID Global combined with factory-installed software from Avigilon that aligns with the needs of small and medium sized businesses.



MANAGE FROM BROWSER-ENABLED DEVICES

The familiar interface helps make it quick to learn and understand using any mobile device or PC with an internet connection.



EMAIL NOTIFICATION

Flexibility to customize the lock to meet the needs of the application now, and purpose-built to allow for customizing the lock rather than replacing it in the future, with little to no operational disruption.



FLEXIBLE I/O LINKING

Turn any keyed door or sensitive area into a monitored access door to improve security in and around facilities.



SIMPLE UPGRADE PATH

As your company grows, the system grows with you. We make the transition to the ACM Professional system easy with a simplified migration path.

KNOW WHAT
IS HAPPENING.

ACT WITH
CERTAINTY.

For more information, visit www.motorolasolutions.com/videosecurityanalytics



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