# PUBLIC SAFETY
# PRODUCT CATALOG
## VIDEO SECURITY & ACCESS CONTROL SOLUTIONS

**MOTOROLA** SOLUTIONS

avigilon™

# THE FIRST AND ONLY MISSION-CRITICAL ECOSYSTEM

Motorola Solutions has created the mission-critical ecosystem built for public safety. 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 — to reveal the insights which drive meaningful change.

**LMR MISSION CRITICAL COMMUNICATIONS**

**SAFETY REIMAGINED**

**VIDEO SECURITY & ACCESS CONTROL**

**COMMAND CENTER SOFTWARE**

**MANAGED & SUPPORT SERVICES**

# VIDEO SECURITY & ACCESS CONTROL

## 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 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 safe world.

# PUBLIC SAFETY

## LAW ENFORCEMENT SOLUTIONS

## COMMUNITY VIDEO SECURITY

# CAPTURE EVERY INCIDENT. RECORD EVERY ENCOUNTER.

**SOLUTIONS FOR LAW ENFORCEMENT**

Video is a vital technology for public safety agencies around the world. Whether you use it to maintain security, identify suspects, gather evidence or initiate a response, having eyes on the scene is an important advantage to your team. Motorola Solutions maintains a comprehensive portfolio of video solutions, including the storage, management and analytics applications you'll need to fully utilize your new streams of intelligence.

From body-worn cameras to fixed infrastructure. From thermal cameras to access control, we have the solutions that can help you keep your community safer.
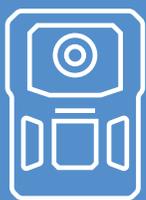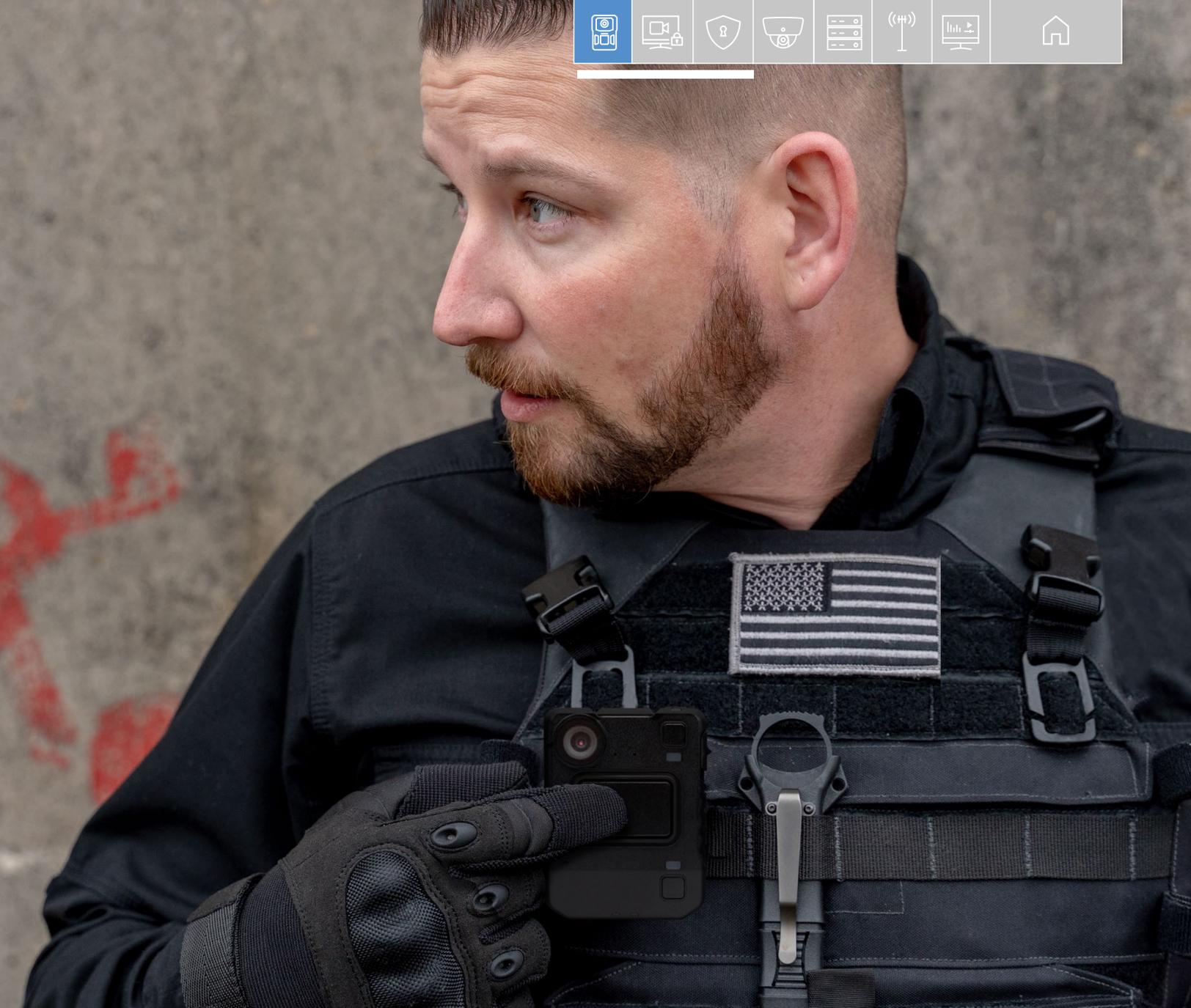
# BODY-WORN CAMERAS

For modern public safety professionals, body-worn cameras have become almost as important as two-way radios. To improve accountability, discourage frivolous lawsuits and maintain the trust of the community, it's critical that your officers capture video records of their interactions with citizens. The VB400 is a high-performance ruggedized camera, available worldwide outside of North America, that offers multiple options for connection and customization.

# VB400 CAMERAS

## AVAILABLE FOR PUBLIC SAFETY USE GLOBALLY OUTSIDE OF NORTH AMERICA

Offers public safety professionals a ruggedized, feature-rich recording device designed for those on the front line.
Both WiFi- and Bluetooth-enabled, the VB400 is optimized to perform when it matters most.

## SPECIFICATIONS

| MODEL NAME | | VB400 |
|---|---|---|
| PART NUMBER | | VB-400-64-**F**-N |
| Features | Dimensions (H x W x D) | 2.7 x 3.5 x 1.04 in (68 x 89 x 26.6 mm) |
| | Weight | 5.7 oz (162 g), plus mounting |
| | Charging | Up to eight hours from fully flat battery |
| | Bluetooth | BT 2.1 + EDR, BLE 4.2 |
| Video | Recording Storage | 64 GB |
| | Recording Time | Up to 12 hours |
| | Battery On Standby | 48 hours |
| | Battery Type | Lithium-Polymer |
| | Horizontal Field of View | 120 degrees |
| | Peer-Assisted Recording | Within 32.8 ft (10 m) of another device |
| WiFi | WiFi Specification | 802.11 a/b/g/n (2.4 GHz & 5 GHz) |
| | WiFi Security | WPA2-PSK |
| | WiFi Streaming | 640 x 360, 25 or 30 fps |

| FIXING AND MOUNT OPTIONS **F** | | |
|---|---|---|
| QR | Quick Release Fixing | Suitable for attaching to the quick release fixing options |
| KF | Klick Fast Harness | Suitable for directly attaching to the klick fast fixing options |
| VF | Close-Fit Mount | Suitable for attaching to the close fit mount options |
| ALIG | Alligator Clip | Comes with a factory fitted alligator clip |

## KEY FEATURES

RFID Assignment

Internal GPS Receiver

Bluetooth

Configure up to 2 Minutes of Pre-Recording

Holster Sensor

Records for Up to 12 Hours

LEARN MORE

## SECURITY & CERTIFICATION

| | |
|---|---|
| Storage Media | Internal solid state |
| Access | Sealed unit, no user access to storage media or battery |
| EMC Certification | Yes |
| FCC Certification | Yes |
| CE Certification | Yes |
| Environmental Certification | IP67 weather rating |

Part number varies based on fixing or mount options **F**.

# VB400 CAMERA ACCESSORIES
## AVAILABLE FOR PUBLIC SAFETY USE GLOBALLY OUTSIDE OF NORTH AMERICA

There are a variety of accessories to ensure your body-worn camera
can be fixed securely to any uniform or clothing.

## COMPATIBILITY

| MODEL NAME / PART NUMBER | VB-400 WITH QUICK RELEASE BACK (VB-440-64-QR-N) | VB-400 WITH KLICK FAST BACK (VB-440-64-KF-N) | VB-400 WITH CLOSE FIT BACK (VB-440-64-VF-N) | VB-400 WITH ALLIGATOR CLIP (VB-440-64-ALIG-N) |
|---|---|---|---|---|
| Custom VB400 Front-button Sticker (Design) (VB-400-ID-CUS-ART) | Compatible | | | |
| Custom VB400 Front-button Sticker (Print) (VB-400-ID-CUS-100 or 250/1000/5000) | Compatible | | | |
| Klick Fast Quick Release Stud (VB-400-QR-KFSTUD) | Compatible | | | |
| Klick Fast Quick Release Tilt Mount (VB-400-QR-KFTILT) | Compatible | | | |
| Klick Fast Quick Release Wide Tilt Mount (VB-400-QR-KFTILT2) | Compatible | | | |
| Quick Release Sports Camera Pillar (VB-400-QR-SPORT) | Compatible | | | |
| Klick Fast 3-Point Chest Harness (KF-HARN3)[1] | Compatible | | | |
| Klick Fast 4-Point Chest Harness (KF-HARN4)[1] | Compatible | | | |
| Klick Fast Shoulder Harness (KF-HARN5)[1] | Compatible | | | |
| Klick Fast Uniform Screw-on Dock (KF-SCREW)[2] | Compatible | | | |
| Klick Fast Radio Loop Dock (KF-LOOP)[2] | Compatible | | | |
| Klick Fast Dock Clamp (KF-DOCKCLAMP)[2] | Compatible | | | |
| Klick Fast Dock Epaulette (KF-DOCKEP)[2] | Compatible | | | |
| Klick Fast Magnetic Mounting Set (w/o magnet) (KF-MAGMOUNT)[2] | Compatible | | | |
| Klick Fast Dock for MOLLE Vests (KF-MOLLEVEST)[2] | Compatible | | | |
| Close-Fit Magnetic Mount (VB-400-VF-MAG) | | | Compatible | |
| Close-Fit Double MOLLE Mount (VB-400-VF-MOL2) | | | Compatible | |

[1] Klick Fast Harnesses are compatible with the VB-440-64-QR-N when used in conjunction with Klick Fast Quick Release Fixings. Also available for the VB-440-64-KF-N camera.
[2] Available for the VB-440-64-QR-N when used in conjunction with Klick Fast Quick Release Fixings.

# VB400 CAMERA DOCKS

## AVAILABLE FOR PUBLIC SAFETY USE GLOBALLY OUTSIDE OF NORTH AMERICA

For downloading of video and rapid charging of body-worn cameras.

## SPECIFICATIONS

| MODEL NAME | VB400 1-PORT DOCK | VB400 14-PORT DOCK |
|---|---|---|
| PART NUMBER | VB-400-DOCK-SOLO | VB-400-DOCK14[2] |
| Dimensions (H x W x D) | 2.95 x 3.54 x 1.57 in (75 x 90 x 40 mm) | 1.5 x 7.87 x 17.17 in (38 x 200 x 436 mm) |
| Weight | 8.6 oz (244 g) | 4.85 lb (2.2 kg) |
| Scalability | Up to four 1-Port Docks can be connected to a DockController | Multiple docking stations can beconnected to a single PC or DockController |
| Charging | This dock can charge a VB400 in up to eight hours from a fully flat battery | This dock can charge a VB400 in up to eight hours from a fully flat battery |
| Connection | Single USB to PC | Single USB to PC or DockController, and a mains adaptor for power |
| Power Requirement | 5V USB | 12V/5A PSU, input 100-240V (PSU supplied) |

## LEARN MORE

[2] Part number varies based on power outlets: VB-400-DOCK14/US, VB-400-DOCK14/UK, VB-400-DOCK14/EU, VB-400-DOCK14/ROW.

# RFID READER & ACCESSORIES

## AVAILABLE FOR PUBLIC SAFETY USE GLOBALLY OUTSIDE OF NORTH AMERICA

Connect an RFID reader to a DockController device to make body-worn camera
allocation quicker and easier, using your organization's existing ID or access cards.

## SPECIFICATIONS

| MODEL NAME | | RFID READER |
|---|---|---|
| **PART NUMBER** | | **RF-220** |
| General Information | Typical Usage | Attached to a DC-200 via USB connection |
| | Management Software | VideoManager |
| | Warranty | 1 year return to manufacturer warranty |
| | Snap-in Holder | The Snap-in Holder is used to fix the RF-220 to a flat surface |
| Size & Weight | Dimensions (H x W x D) | 3.5 x 2.2 x 0.7 in (88 x 56 x 18 mm) |
| | Weight | 4.1 oz (115 g) |
| Technical Specifications | Frequency | Low Frequency: 134.2 kHz, High Frequency: 13.56 MHz |
| | Read / Write Distance | 4 in (100 mm) for both Low Frequency and High Frequency |
| | Supported Compatible Card Standards | Including but not limited to:<br>ISO1443A (e.g. MIFARE Classic)<br>ISO14443B (e.g. HID iCLASS)<br>ISO15693 (e.g. HID iCLASS SE)<br>Access Control Manager (ACM) door access cards |

## KEY FEATURES

Secure & Efficient
Camera Allocation

No Need to
Log in Each Time

Automatic Association
Between Camera & User

## LEARN MORE

## RFID READER ACCESSORIES

| TYPE | PART NUMBER |
|---|---|
| RFID Sticker-Style Tag (x10) | RF-STICKER-10 |
| RFID-Card (x10) | RF-CARD-10 |

RFID Readers and accessories are compatible with VT100 & VB400 body-worn cameras

# DOCKCONTROLLER
## AVAILABLE FOR PUBLIC SAFETY USE GLOBALLY OUTSIDE OF NORTH AMERICA

Simultaneously manage up to 84 body-worn cameras while also
assigning them to operators using VideoManager software

## SPECIFICATIONS

| MODEL NAME | | DOCKCONTROLLER |
|---|---|---|
| PART NUMBER | | DC-200/ R |
| General Information | Typical Usage | Connected to VideoManager over Ethernet, with multiple docks attached via USB |
| | Management Software | VideoManager |
| | Warranty | 1 year return to manufacturer warranty |
| Size & Weight | Dimensions (H x W x D) | 6.1 x 5.3 x 1.5 in (154 x 136 x 37 mm) |
| | Weight | 23.3 oz (660 g) |
| Scalability | Body-Worn Camera Support | Connect up to 84 body-worn cameras to one DC-200. Ideal for use with 14-port docks. Can also be used with up to 4 individual 1-port docks. |
| | Unlimited VideoManager Connectiity | There is no limit on the number of DC-200s that can be connected to an instance of VideoManager |
| Technical Specifications | Operating Temperature | 32 to 104 °F (0 to 40 °C) |
| | Storage Temperature | -67 to +158 °F (-55 to +70 °C) |
| | Input Voltage (to supplied external power supply) | 100 - 240V, 47 - 63Hz |
| | Maximum Power Consumption | 20W |
| Connectivity | High-Speed Footage Downloads | Gigabit Ethernet Port (1000/100/10 mbps) for rapid footage download and body-worn camera assignment |
| | RFID-Compatible | Attach an RFID reader to one of the DC-200's USB ports to enable quick body-worn camera assignment |
| | Bandwidth Restrictions | Apply bandwidth rules to individual DC-200s to control how much footage is uploaded to VideoManager, and when |
| | High-Priority Configuration | Prioritize certain DC-200s to ensure that their footage is downloaded to VideoManager first |
| | Slow Connection Configuration | DC-200s with this setting enabled will continuously try to offload footage to VideoManager, ignoring the bandwidth limit |
| | Shared Bandwidth Groups | Add multiple DC-200s to one bandwidth group to ensure that the bandwidth limit is shared equally between them |

## KEY FEATURES

Connect up to 84
Body-Worn Cameras

Supports RFID Touch-Assign

## LEARN MORE

## REGIONAL COMPATIBILITY

| US | United States |
|---|---|
| UK | United Kingdom |
| EU | Europe |
| AUS | Australia |
| ROW | Rest of World |

Part number varies based on regional compatibility R.
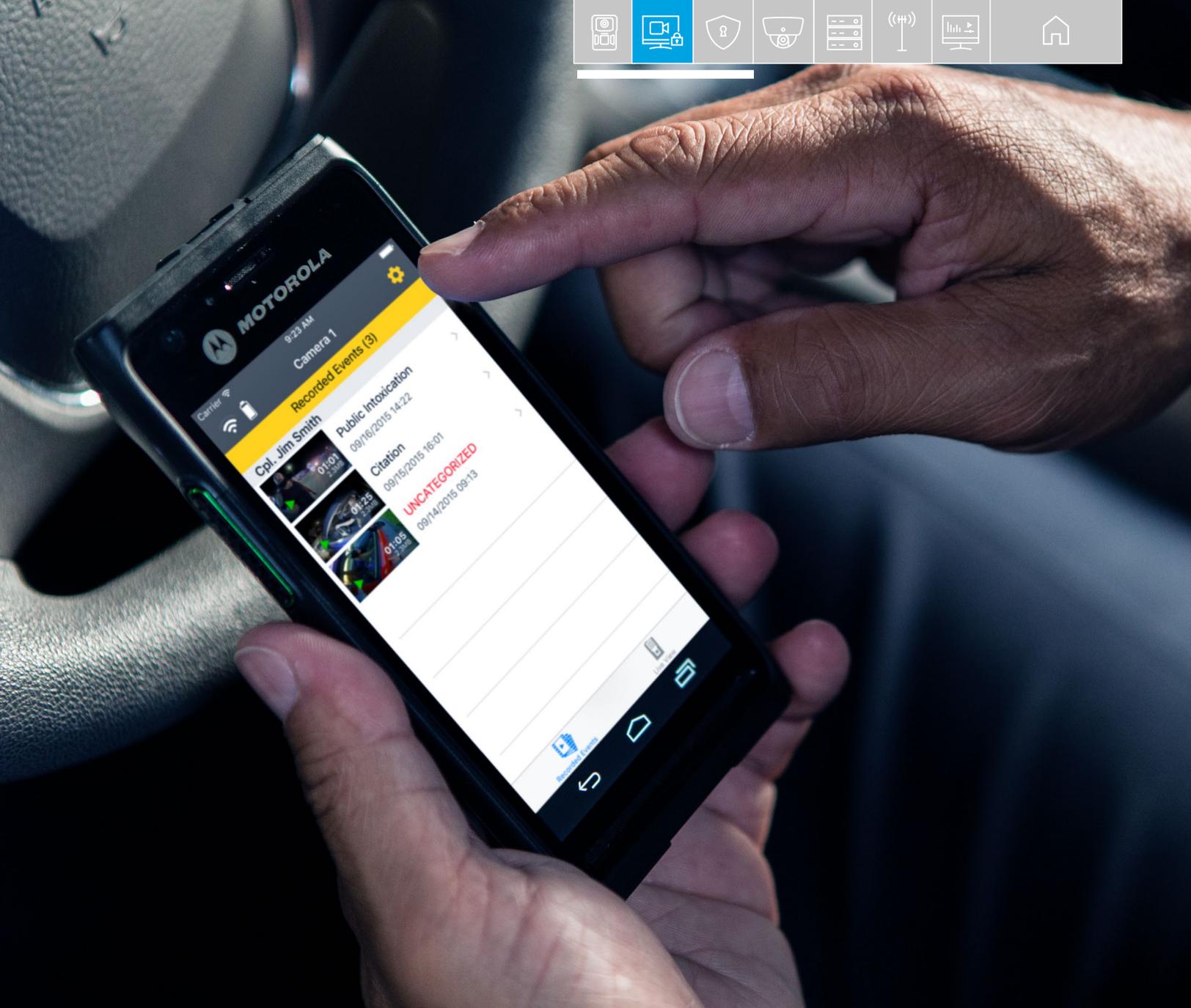
# VIDEO & CAMERA MANAGEMENT SOFTWARE

To keep your fleet of body-worn and in-car cameras operating at peak efficiency, you'll need a system management platform. You'll need to be able to assign ownership, change settings, update firmware and manage permissions on your devices before you can send them out to capture video. And capturing video is just the start. Once you have that footage, you'll need to upload it, store it, categorize it, redact it, share it and archive it. That's why you need powerful software behind your cameras.

# VIDEOMANAGER SOFTWARE

## SUPPORTS VB400 BODY-WORN CAMERAS

Browser-based system for management of users and devices as well as the managing, storing and sharing of digital evidence.

## SPECIFICATIONS

| | | |
|---|---|---|
| **Workflow Control** | Granular Permissions | Users can only access the parts of the VideoManager interface which are relevant to their workflow. |
| | Granular Sharing | Incidents and videos can be automatically or manually shared between users and groups on VideoManager. Instances can be shared with workers who are not on VideoManager, using time-sensitive links or exports. |
| | Permissions Overview | Administrators can see permissions associated with a user, and how they got those permissions. |
| | Priviledge Escalation | Authorized users can temporarily elevate their priviledges for a limited time, in order to perform certain actions on VideoManager. |
| | Deletion Policies | Configure how long footage is kept on VideoManager before it is deleted. |
| | Automatic DockController Firmware Upgrades | Ensure your suite of DockControllers always have the latest firmware, eliminating manual upgrades. Configure a specific timeframe for DockController firmware upgrades, to minimize workflow disruption. |
| **Security** | Comprehensive Audit Trail | A comprehensive audit log of every action performed in the system is created. Users can create and download audit logs to view these actions if necessary. |
| | Access Control Keys | Without a device's access control key, undownloaded footage on a device is inaccessible. |
| | File Space Encryption | Footage, report and export filespaces are automatically encrypted for extra security. |
| **Scalability** | Bulk Edit | Large numbers of events can be instantaneously deleted or added to incident collections. Large numbers of body-worn cameras can be assigned or upgraded in parallel. |
| | User Groups | Put multiple users in a group for sharing and management purposes. Groups can be supervised by individual users, or other groups. |
| | Reports Creation | Download reports detailing various aspects of VideoManager acitivity e.g. when devices were docked and undocked. |
| | Live Statistics | View real-time statistics with information about how VideoManager is being used. |
| **Technical Specifications** | Compatible Server Platforms | Windows Server 2016 Essentials, Standard and Datacenter, Windows Server 2012 R2 Essentials, Standard and Datacenter, Windows Server 2012 Essentials, Standard and Datacenter, Windows 10 Pro and Enterprise and Windows 8.1 Pro and Enterprise |
| | Compatible Client Browsers | Microsoft Internet Explorer 11 (Windows 7/8.1/10), Microsoft Edge 14+ (Windows 10), Firefox 47+ (Windows 10), Chrome 48+ (Windows 7/8.1/10, MAC OS X v10.10) |

## CONNECTIVITY FEATURES

- Integrates with ACC video management software (via ONStream technology)
- Can be enabled as a central VideoManager, to which other instances of VideoManager ("sites") can be connected
- Connect VideoManager to CommandCentral Vault, for footage storage and correlation with other CommandCentral Suite applications[1]
- Group footage and other important media in an incident for ease of view

## EVIDENCE PREPARATION FEATURES

- Put multiple incidents in an incident collection for sharing and management purposes
- Redact footage and images using effects like bluring, pixelation and highlighting. Audio, text and zoom redactions are also available
- Non-video media (PDFs, MP4s, JPGs), and videos which were not recorded using VT100 or VB400 can be imported to VideoManager and added to incidents

## LEARN MORE

*Requires CommandCentral Vault subscription.
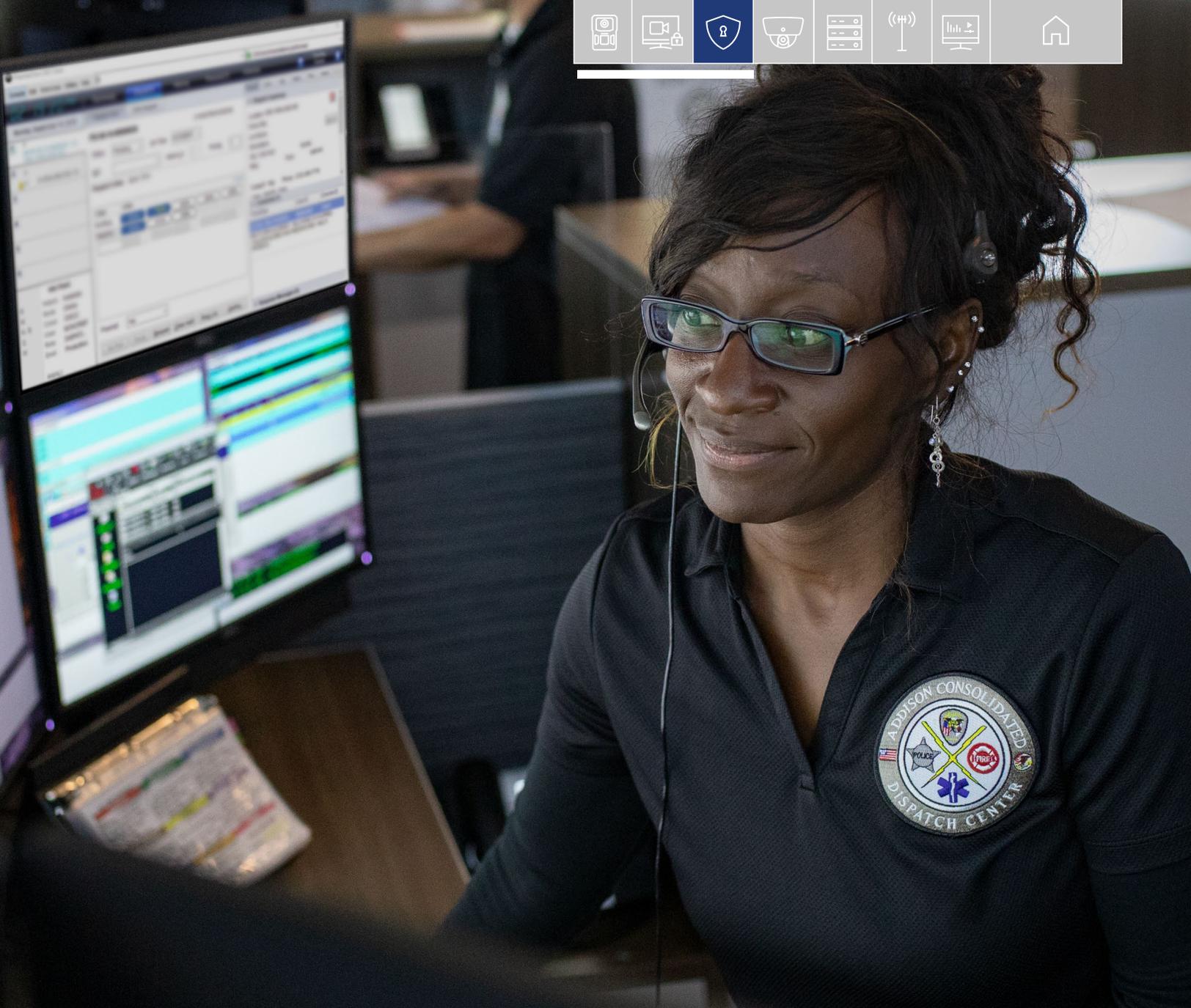
# ACCESS CONTROL

The Motorola Solutions Access Control Manager (ACM) system is a physical access control system for large-deployment installations, designed to help you focus on securing your people, property and assets — even those that span across a large perimeter — 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.

# ACM 6 SOFTWARE

Access Control Manager (ACM) is a physical access control system for enterprise-class installations, designed to protect people, property and assets with advanced alarm and identity management providing superior control of access to facilities. This 100% browser-based solution offers the flexibility to respond to alerts from anywhere. ACC unification offers a powerful end-to-end security solution to monitor and secure sites.

## DETAILS

| | | |
|---|---|---|
| Identity Management | Integrated Badging | Ability to design and print badges from within the ACM Browser. |
| | Collaborations | Collaboration provides the ability to exchange data between the access control appliance application and a large number of other database types (e.g., LDAP, SQL Server, Oracle RDBMS, CSV imports, Generic XML, REST API Tools). |
| | Identity Correlation Report | Contact tracing tool to help verify identities that may be at risk by having close contact with infected individuals. |
| Alarm Management | Event Correlation & Alarm Monitoring | Alarm management workflow, with visual representations of alarms using color-based priority indicators, audible alerts, the ability to view live and recorded video, append notes, receive instructions, acknowledge and clear alarms. |
| | Integrated Video & Mapping Interface | Automated alarms generated by ACM can be viewed on a map and linked to the associated live or recorded video stream from ACC software. |
| | Email Notifications | Receive automatic email notifications of access control events. |
| | Identity Mustering | This interactive tracker can pinpoint missing personnel quickly with a real-time visual display of where people are at all times based on their badging activity. |
| Open-Field Hardware Support & Integrations | Controllers & Sub-Panels | Protect and future-proof your access control investment by using open-field hardware from leading manufacturers. |
| | Intrusion Detection | Integration to intrusion detection systems to automate the management and control within the ACM system. |
| | Wireless Locks | Integration with leading third-party wireless lock vendors. |
| | Biometric Readers | Integration to biometric fingerprint reader technology. |
| | pivCLASS | Integration with HID® pivCLASS® technology when implemented in an HSPD-12 environment requiring FIPS 201-2 evaluation program approval. |
| | Video Security | Unification with ACC software and integration with other third-party video management software to better inform responses with video context. |
| Easy to Use & Deploy | Turnkey Operation | Easy installation experience with server appliances that are ready to go the moment you plug them in. |
| | Templates | Wide selection of easy-to-use templates for doors and wiring for faster configuration. |
| | Customized Reporting | Pre-defined, ready-made reports that can be customized to display important access control data. |
| | Peer-to-Peer Replication | Patented technology that allows for replication of identity data on multiple appliances across many sites. This embedded technology requires no additional software or hardware and simplifies identity management, promotes consistency of identity data and reduces data entry efforts. |
| | Scalable Deployment Model | ACM appliances allow you to start with what you need on individual appliances, then expand by adding doors and replicating to additional appliances as your organization grows. |
| | Mobile App | ACM Expedite provides quick and easy access to pre-configured global actions, allowing operators on-the-go to swiftly perform daily operations such as unlocking a door, and responding to critical events such as a sitewide lockdown – all from their mobile device. |

## KEY FEATURES

The Avigilon Access Control Manager (ACM) system is designed to keep your focus on securing people, property and assets, and maximize your time by helping you respond immediately to alerts wherever you are. The ACM™ system is 100% browser-based, requiring no software installation. Deploying hardened linux-based appliances, we use open-field hardware to leverage a breadth of standardized products from trusted manufacturers for different solutions to uniquely fit customer needs. It also supports third party integrations through our RESTful API. The ACM system leverages an open architecture, integrates identity management and video surveillance such as ACC video management software and achieves a high level of scalability with a low cost of ownership. It delivers a ready-to-deploy solution that provides the performance you expect from an enterprise-class solution.

## LEARN MORE

# ACM™ 6 SYSTEM

Designed to help you focus on securing your people, property and assets, while giving you the flexibility to respond to alerts wherever you are.

## SPECIFICATIONS

| EDITION | PROFESSIONAL | ENTERPRISE | ENTERPRISE PLUS | VIRTUAL |
|---|---|---|---|---|
| PART NUMBER | AC-APP- R R-PRO-6 | AC-APP- R R-ENT2-6 | AC-APP- R R-ENT-PLUS-6 | AC-APP- R R-VM-6-P |
| Appliance Type | Small form factor, desktop | 1U rack mount chassis | | VMware vSphere® ESX(i) 6.5+[1] or Microsoft Hyper-V |
| Max. Number of Doors | 16–32 | 16–400 | 16–2048 | 16–2048 |
| Max. Simultaneous Operators | 10 | 20 | 50 | |
| Max. Identities | 75,000 | 250,000 | 500,000 | |
| Max. Stored Transactions | 75,000,000 | 150,000,000 | | |
| Storage | 500 GB (7.2K RPM SATA) | 1 TB (7.2K RPM SATA 6 Gbps) | 1.3 TB (4 x 480 GB SSD RAID5) | 1 TB SSD[1] |
| Processor | 3.7 GHz Intel® Pentium® 5400 (4 MB cache, 2C/4T, 65 W) | Intel Xeon E-2124 3.3GHz, 8M cache, 4C/4T, turbo (71W) | 3.8 GHz Intel Xeon E3-1270 v6 (8 MB cache, 4C/8T, Turbo, 72 W) | 3.8 GHz Intel Xeon E3-1270 v6 (8 MB cache, 4C/8T) |
| Memory | 4 GB (1 x 4 GB) (2.6 GHz DDR4 Non-ECC) | 8GB 2666MT/s DDR4 ECC UDIMM | 32 GB (2 x 16 GB) (2400 MT/s DDR4 UDIMMs) | 32 GB[1] |
| Network Interface | 1 Gigabit Ethernet Intel | 1 Gigabit Ethernet Broadcom 5720 | | 1 Gigabit Ethernet[1] |
| Replication & Hot Standby Auto Failover | No | Yes | | |
| RAID & Hot-Swap Components | No | | Yes | Yes[1] |

| LICENSE OPTIONS | | | | |
|---|---|---|---|---|
| Max. Number of Doors Supported per License R | 16 doors 32 doors | 16 doors 32 doors 64 doors 128 doors 256 doors 400 doors | 16 doors 256 doors 512 doors 1024 doors 2048 doors | 16 doors 32 doors 64 doors 128 doors 256 doors 512 doors 1024 doors 2048 doors |

## STANDARD FEATURES

- Quick online license management
- Email notification
- Event monitoring and schedules
- Identity search, import/export and management
- Panel and door status
- Preconfigured and custom reports
- Firmware updates
- OSDP In/Out door support
- Backup and restore

- PoE compatible Mercury hardware
- Migration from ACM Embedded Controller
- Mercury and HID hardware interoperability
- Software integrations (video, intrusion, wireless locks and visitor management)
- Biometric integrations
- Support for Mercury Security large encoded card formats

- Graphic maps and muster dashboard
- Photo import/export
- Alarm management andacknowledgment
- Badging
- Multi-language
- System configuration templates for doors, wiring, input, output and doors, to enable quick Batch Add setup
- Mercury Security panel certificates for added security
- GSA approved products list

## LEARN MORE

[1] System recommendations.

# HARDWARE & INTEGRATIONS

## 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.

## READERS & CREDENTIALS
The ACM system offers trusted and secure door readers and multipurpose credential cards to keep security at the forefront of your facility.

## WIRELESS LOCK INTEGRATIONS
The ACM system seamlessly integrates with third-party wireless locks for you to combine all of the components of an access controlled door into a simplified all-in-one system that saves time and costs.

## BUNDLED KITS
The ACM Bundled Kits come with everything needed to connect up to 16 doors of access.

## FEDERAL GOVERNMENT SOLUTIONS
The ACM system is FIPS 201-2 compliant and is a certified solution on the GSA Approved Product List (APL), meeting the Personal Identity Verification (PIV) requirements mandated for U.S. federal employees and contractors. Customers can conveniently and reliably purchase all components of this fully compliant, GSA-approved FICAM solution directly from Motorola Solutions.

## INTRUSION PANELS
Centrally monitor and control Bosch intrusion panels and access events from the ACM system for visual verification of alerts and faster responses. Operators 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.

## BIOMETRIC SOLUTIONS
The integration of ACM with ViRDI's biometric fingerprint reader technology provides further safeguards to high security environments with an extra form of identification.

## VISITOR MANAGEMENT
ACM integrates with HID Global's EasyLobby Secure Visitor Management software, which allows organizations to automate the entire process of registering a visitor, printing a badge and capturing detailed information in seconds by simply scanning an ID.

## POWER SUPPLIES
High-efficiency, cost-effective power supplies from LifeSafety Power and Elmdene provide all the power needed for up to 16 doors.

## ACM VERIFY VIRTUAL STATIONS
ACM Verify allows any browser-enabled smart device to act as a virtual station. It works by recording and confirming an individual's identity using a PIN code, enabling you to extend the capability of your access system to locations where physical access doors are not feasible.

**LEARN MORE**

# SMART VIDEO SOLUTIONS ENABLE A FASTER RESPONSE

**SOLUTIONS FOR COMMUNITY VIDEO SECURITY**

The right technology is critical to law enforcement's success in safeguarding business investments within the community and protecting citizens.

Law enforcement agencies across local, state and county levels need to do more with less in order to effectively secure densely populated areas that often span across a large perimeter.

With so much at stake, the ability to monitor potential threats in real time and leverage the power of intelligent forensic video tools could make all the difference in preventing crime and protecting citizens within their community.
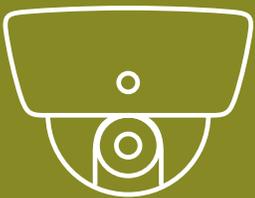
# FIXED CAMERAS

Motorola Solutions offers a complete video security solution with cutting-edge camera and sensor technologies that are embedded with features like smart analytics, to focus your attention on the important details that help you solve crimes. From traffic enforcement and city surveillance to crime prevention and community protection, assistive AI on board intelligent cameras can help improve response times in the moments that matter most. Infrared (IR) and LightCatcher™ technology help you see more in dark environments, while a 360-degree view for broad coverage with fewer cameras can help to maximize scene coverage for better situational awareness.

# H5 PRO CAMERAS

The new Avigilon H5 Pro Camera Line captures the best-in-class image details over vast areas, providing maximum coverage options through our most powerful and innovative ultra high definition cameras yet.

## SPECIFICATIONS

| MODEL NAME | 8 MP (4K ULTRA HD) H5 PRO | 16 MP H5 PRO | 26 MP H5 PRO | 40 MP H5 PRO | 61 MP H5 PRO |
|---|---|---|---|---|---|
| PART NUMBER | 8C-H5PRO-B | 16C-H5PRO-B | 26C-H5PRO-B | 40C-H5PRO-B | 61C-H5PRO-B |
| Resolution | 8 MP (4K) | 16 MP (5K) | 26 MP (6K) | 40 MP (8K) | 61 MP (10K) |
| Image Sensor (progressive scan CMOS) | 27.2 mm (Type 1.8) | | | 43.3 mm (Type 2.7) | |
| Max. Dynamic Range | WDR Off: 70 dB<br>WDR On: 120 dB | | | | |
| Max. Image Rate (50 Hz / 60 Hz) | WDR Off: 25 fps / 24fps<br>WDR On: 16.7 fps / 17.1 fps | | 16:9: 16.7 fps / 17.1 fps<br>3:2: 14.3 fps / 15 fps | WDR Off: 10 fps<br>WDR On: 8.3 fps / 8.6 fps | 3:2: 7 fps<br>16:9: 8.3 fps / 8.6 fps |
| Max. IR Illumination Distance | – | | | | |
| Environmental | IP66 rating for water resistance with optional appropriate housing | | | | |
| Lens | Dependent on selected lens capability – see page 38 for lens options | | | | |

## OPTIONAL LICENSES & ACCESSORIES

| | FIPS LEVEL |
|---|---|
| PART NUMBER | CAM-FIPS |
| Camera license to enable FIPS Level 1 cryptographic mode on H5A camera | FIPS Level 1 Encryption |

## KEY FEATURES

- Next-Generation Video Analytics[1]
- Unusual Activity Detection[1]
- Avigilon Appearance Search Technology[1]
- Facial Recognition Technology[1]
- FIPS-Compliant Cryptography Available[2]
- Compliant with ONVIF Profile G
- Extended Temperature Range
- H.264 & H.265 HDSM SmartCodec Technology, Motion JPEG
- LightCatcher Technology
- Wide Dynamic Range
- Audio Recording Capabilities[3]
- No Face Mask Detection & Occupancy Counting[1]

## AUDIO, POWER & STORAGE

| | |
|---|---|
| Audio Compression Method | Opus, G.711 PCM 8 kHz |
| Audio Input/Output | Line level I/O, A/V mini-jack (3.5mm) |
| External I/O Terminals | Alarm in, alarm out |
| External Power Source | VDC: 12 V ± 10%, 18 W; VAC: 24 V ± 10%, 21 VA |
| PoE Power Source | IEEE802.3at Class 4 compliant |
| Onboard Storage | 2xmicroSD/microSDHC/microSDXC slot – video speed class required. Class V10 or better recommended. |

[1] Not available on H5 Pro 61 MP models.
[2] Additional license required.
[3] Optional.

## LEARN MORE

# H5A CAMERAS

Features next-generation video analytics to provide a smarter and more powerful video security solution from the moment you set it up.

## SPECIFICATIONS

| MODEL NAME | H5A DOME (INDOOR SURFACE) | | | | H5A DOME (IN-CEILING) | | | | H5A DOME (OUTDOOR SURFACE) | | | | | H5A DOME (PENDANT) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PART NUMBER | .0C-H5A-D **L** | | | | .0C-H5A-DC **L** | | | | .0C-H5A-DO **L** | | | | | .0C-H5A-DP **L** | | | | |
| WITH OPTIONAL IR ILLUMINATORS | .0C-H5A-D **L**-IR | | | | .0C-H5A-DC **L**-IR | | | | .0C-H5A-DO **L**-IR | | | | | .0C-H5A-DP **L**-IR | | | | |
| Resolution (MP) **R** | ❷ | ❹ | ❻ | ❽ | ❷ | ❹ | ❻ | ❽ | ❷ | ❹ | ❺ | ❻ | ❽ | ❷ | ❹ | ❺ | ❻ | ❽ |
| Max. Dynamic Range (dB) | 132 | 126 | 120 | | 132 | 126 | 120 | | 132 | 126 | 126 | 120 | | 132 | 126 | 126 | 120 | |
| Max. IR Illumination Distance (at 0 lux) | 35 m (115 ft) | | 30 m (98 ft) | | 35 m (115 ft) | | 30 m (98 ft) | | 35 m (115 ft) | – | | 30 m (98 ft) | | 35 m (115 ft) | – | | 30 m (98 ft) | |
| Image Sensor (progressive scan CMOS) | 1/2.8" | | 1/1.8" | | 1/2.8" | | 1/1.8" | | 1/2.8" | | | 1/1.8" | | 1/2.8" | | | 1/1.8" | |
| Environmental | – | | | | | | | | IP66 / IP67 weather rating, IK10 impact rating | | | | | | | | | |
| Onboard Storage | microSD / microSDHC / microSDXC slot – video speed class required. Class V10 or better recommended. | | | | | | | | | | | | | | | | | |

### LENS OPTIONS **L**

| | | | INDOOR SURFACE | | | IN-CEILING | | | OUTDOOR SURFACE | | | PENDANT | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ❶ 3.3-9 mm F1.3, P-Iris | Angle of View | | 34° – 99° | 34° – 92° | – | 34° – 99° | 34° – 92° | – | 34° – 99° | 34° – 92° | – | 34° – 99° | 34° – 92° | – |
| | Minimum Illumination (lux) | Color | 0.027 | 0.03 | – | 0.027 | 0.03 | – | 0.027 | 0.03 | – | 0.027 | 0.03 | – |
| | | Mono | 0.014 | 0.015 | – | 0.014 | 0.015 | | 0.014 | 0.015 | | 0.014 | 0.015 | |
| ❶ 4.9-8 mm F1.8, P-Iris | Angle of View | | – | 52° – 92° | | – | 52° – 92° | | – | 52° – 92° | | – | 52° – 92° | |
| | Minimum Illumination (lux) | Color | – | 0.055 | | – | 0.055 | | – | 0.055 | | – | 0.055 | |
| | | Mono | | 0.028 | | | 0.028 | | | 0.028 | | | 0.028 | |
| ❷ 9-22mm F1.6, P-Iris | Angle of View | | 14° – 31° | – | | 14° – 31° | – | | 14° – 31° | – | | 14° – 31° | – | |
| | Minimum Illumination (lux) | Color | 0.052 | 0.058 | – | 0.052 | 0.058 | – | 0.052 | 0.058 | – | 0.052 | 0.058 | – |
| | | Mono | 0.026 | 0.029 | – | 0.026 | 0.029 | – | 0.026 | 0.029 | – | 0.026 | 0.029 | – |

## KEY FEATURES

- Next-Generation Video Analytics
- LightCatcher Technology
- Compliant with ONVIF® Profile S, T and G
- Remote Zoom and Focus
- Maximum Image Rate of 30 fps
- Wide Dynamic Range Support
- H.264 & H.265 HDSM SmartCodec™ Technology, Motion JPEG
- FIPS-Compliant Cryptography Available[1]

## AUDIO & POWER

| | |
|---|---|
| Audio Compression Method | Opus, G.711 PCM 8 kHz |
| Audio Input/Output | Line level input/output |
| External I/O Terminals | Alarm in, alarm out |
| External Power Source | VDC: 12V, VAC: 24V |
| PoE Power Source | IEEE802.3af Class3 compliant |

[1] Additional license required — see page 38.

Part number varies based on camera resolution **R** and lens option number **L**.

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## LEARN MORE

# H5A CAMERAS

Features next-generation video analytics to provide a smarter and more powerful video security solution from the moment you set it up.

## SPECIFICATIONS

| MODEL NAME | H5A BOX | | | | H5A BULLET | | | | |
|---|---|---|---|---|---|---|---|---|---|
| PART NUMBER | R.0C-H5A-B L | | | | – | | | | |
| WITH OPTIONAL IR ILLUMINATORS | – | | | | R.0C-H5A-BO L -IR | | | | |
| Resolution (MP) R | ❷ | ❹ | ❻ | ❽ | ❷ | ❹ | ❺ | ❻ | ❽ |
| Image Sensor (progressive scan CMOS) | 1/2.8" | | 1/1.8" | | 1/2.8" | | 1/1.8" | | |
| Max. Dynamic Range | 132 dB | 126 dB | 120 dB | | 132 dB | 126 dB | 120 dB | | |
| Max. IR Illumination Distance (at 0 lux) | – | | | | 90 m (295 ft)[1] | | | 50 m (164 ft) | |
| Environmental | – | | | | IP66 / IP67 weather rating, IK10 impact rating | | | | |
| Onboard Storage | SD card slot – video speed class required. Class V10 or better recommended. | | | | | | | | |

| LENS OPTIONS[3] L (REMOTE ZOOM AND FOCUS) | | Box 2 | Box 4 | Box 6 | Box 8 | Bullet 2 | Bullet 4 | Bullet 5 | Bullet 6 | Bullet 8 |
|---|---|---|---|---|---|---|---|---|---|---|
| ❷ 3.3-9 mm F1.3, P-Iris | Angle of View | 34° – 99° | 34° – 92° | – | | 34° – 99° | 34° – 92° | – | | |
| | Minimum Illumination (color / monochrome) | 0.027 lux / 0.014 lux | 0.03 lux / 0.015 lux | – | | 0.027 lux / 0 lux[2] | 0.03 lux / 0 lux[2] | – | | |
| ❷ 4.9-8 mm F1.8, P-Iris | Angle of View | – | 52° – 92° | | | – | 52° – 92° | | | |
| | Minimum Illumination (color / monochrome) | – | 0.055 lux / 0.028 lux | | | – | 0.055 lux / 0 lux[2] | | | |
| ❸ 9-22 mm F1.6, P-Iris | Angle of View | – | 14° – 31° | – | | 14° – 31° | | – | | |
| | Minimum Illumination (color / monochrome) | – | 0.058 lux / 0.029 lux | – | | 0.052 lux / 0 lux[2] | 0.058 lux / 0 lux[2] | – | | |
| ❶ 4.7-84.6 mm F1.6, P-iris | Angle of View | 4.1° – 60° | – | | | | | | | |
| | Minimum Illumination (color / monochrome) | 0.039 lux / 0.02 lux | – | | | | | | | |

## KEY FEATURES

- Next-Generation Video Analytics
- LightCatcher Technology
- Compliant with ONVIF® Profile S, T and G
- Remote Zoom and Focus
- Maximum Image Rate of 30 fps
- Wide Dynamic Range Support
- H.264 & H.265 HDSM SmartCodec™ Technology, Motion JPEG
- FIPS-Compliant Cryptography Available[4]

## LEARN MORE

## AUDIO & POWER

| | |
|---|---|
| Audio Compression Method | Opus, G.711 PCM 8 kHz |
| Audio Input/Output | Line level input/output |
| External I/O Terminals | Alarm in, alarm out |
| External Power Source | VDC: 12V, VAC: 24V |
| PoE Power Source | IEEE802.3af Class3 compliant |

[1] With 9-22 mm lens. Max IR illumination distances varies based on lens and temperature - please refer to camera datasheet.
[2] With optional IR.
[3] Not all resolutions and lens combinations are valid. Please see product datasheet for details.
[4] Additional license required — see page 38.

Part number varies based on camera resolution R and lens option number L.

# H5A EXPLOSION-PROTECTED CAMERAS

Features next-generation video analytics to provide a smarter and more powerful video security solution from the moment you set it up.

## SPECIFICATIONS

| MODEL NAME | COMPACT BULLET | BULLET | | PTZ |
|---|---|---|---|---|
| PART NUMBER[1] | 6.0C-H5EX-A0-CO1<br>6.0C-H5EX-B0-CO1<br>6.0C-H5EX-C0-CO1 | 2.0C-H5EX-A0-BO1<br>2.0C-H5EX-A2-BO1<br>2.0C-H5EX-B0-BO1<br>2.0C-H5EX-B2-BO1 | 2.0C-H5EX-F1-BO1<br>2.0C-H5EX-F3-BO1<br>2.0C-H5EX-G1-BO1<br>2.0C-H5EX-G3-BO1 | 2.0C-H5EXPTZ-A0-BO30<br>2.0C-H5EXPTZ-B0-BO30<br>2.0C-H5EXPTZ-C0-BO30 |
| Resolution | 6 MP | 2 MP | | |
| Image Sensor | 1/1.8" progressive scan CMOS | 1/2.8" progressive scan CMOS | | |
| Max. Dynamic Range (dB) | 120 dB | | | |
| Max. Image Rate (50 Hz / 60 Hz) | 25 fps / 30 fps | 60 fps | | |
| Lens | 4.9-8 mm | 4.3-129 mm (30x zoom) | | |
| Minimum Illumination | 0.055 lux in color mode<br>0.028 lux in monochrome mode | 0.1 lux (F/1.6) in color mode<br>0.03 lux (F/1.6) in monochrome mode | | |
| Horizontal Angle of View (Aspect Ratio) | (16:9) 50°-91°; (3:2) 47°-72° | (16:9) 3.1°-64° | | |
| Vertical Angle of View (Aspect Ratio) | (16:9) 29°-51°; (3:2) 27°-48° | (16:9) 1.7°-38° | | |
| Certifications/Directives | UL, cUL, CE, RCM | | | |
| Safety | UL/CSA 62368-1, EN/IEC 62368-1 | | | |
| Environmental | EN/IEC 60529: IP66, IP67, IP68, IP69; EN 60068-2-52: salt spray; UL50E: 4X, 6P | | | |
| Electromagnetic and Explosion Protection | Cameras were tested to Hazloc Canada, Hazloc US, ATEX, IECEx, INMETRO, KCs and EAC Ex standards. For full details, please refer to camera datasheet. | | | |

[1] Model number variations are contingent on cabling options – please refer to camera datasheet. Cameras certified by Videotec S.P.A., model MMX.

## KEY FEATURES

- Next-Generation Video Analytics
- Explosion Protection
- LightCatcher Technology & Automatic IR Cut Filter
- Compliant with ONVIF Profile S and Profile T
- High Temperature Range
- Wide Dynamic Range
- H.264 & H.265 HDSM SmartCodec™ Technology, Motion JPEG

## LEARN MORE

# H5A FISHEYE CAMERAS

Provides 360° panoramic views of large areas from a single vantage point. Offers superior situational awareness with no blind spots for a cost-effective solution, along with multiple mounting and accessory options for easy installation.

## SPECIFICATIONS

| MODEL NAME | SURFACE MOUNT DOME | | IN-CEILING MOUNT INDOOR DOME | |
|---|---|---|---|---|
| PART NUMBER | 8.0C-H5A-FE-DO1 | 12.0W-H5A-FE-DO1 | 8.0C-H5A-FE-DC1 | 12.0W-H5A-FE-DC1 |
| WITH OPTIONAL IR ILLUMINATORS | 8.0C-H5A-FE-DO1-IR | 12.0W-H5A-FE-DO1-IR | | |
| Resolution | 8 MP | 12 MP | 8 MP | 12 MP |
| Image Sensor (progressive scan CMOS) | 1/1.8" | 1/2.3" | 1/1.8" | 1/2.3" |
| Max. Dynamic Range | 120+ dB | | | |
| Max. Image Rate (50 Hz / 60 Hz) | 25 fps / 30 fps | | | |
| Max. IR Illumination Distance (high power 850 nm LEDs, at 0 lux) | 17 m (55 ft) | 12 m (39 ft) | – | – |
| Environmental | IK10 Impact Rating, IP66 and IP67 Weather Rating | | IP5X Rating | |

| LENS | | | | | |
|---|---|---|---|---|---|
| Fisheye, 1.4 mm, F/2.0 | Field of View | 360° | – | 360° | – |
| | Minimum Illumination (color / monochrome) | With IR: 0 lux Without IR: (0.2 lux / 0.1 lux) | – | Without IR: (0.2 lux / 0.1 lux) | – |
| Fisheye, 1.6 mm, F/2.0 | Field of View | – | 360° | – | 360° |
| | Minimum Illumination (color / monochrome) | – | With IR: 0 lux Without IR: (0.38 lux / 0.19 lux) | – | Without IR: (0.38 lux / 0.19 lux) |

## KEY FEATURES

- Next-Generation Video Analytics
- Avigilon Appearance Search Technology
- Wide Dynamic Range Support
- FIPS-Compliant Cryptography Available[1]
- Adaptive IR Technology[2]
- Unusual Activity Detection
- Occupancy Counting
- Compliant with ONVIF Profile S, T and G
- H.264 & H.265 HDSM SmartCodec Technology, Motion JPEG

## AUDIO, POWER & STORAGE

| | |
|---|---|
| Audio Compression Method | Opus, G.711 PCM 8 kHz |
| Audio Input/Output | Line level input and output and built-in microphone (can be enabled) |
| External I/O Terminals | Alarm in, alarm out |
| External Power Source | With IR: VDC: 12 V ±10%, 26 W min Without IR: VDC: 12 V ±10%, 11 W min |
| PoE Power Source | With IR: PoE+: IEEE 802.3at Class 4 Without IR: PoE: IEEE 802.3af Class 3 |
| Onboard Storage | 2 × microSD/microSDHC/microSDXC slot – video speed class required. Class V10 or better recommended. Currently one of the two SD card slots is available for onboard storage. |

[1] Additional license required — see page 38.
[2] Adaptive IR technology available on surface mount only.

## LEARN MORE

# H5A CORNER CAMERAS

Anti-ligature, no-grip and vandal-resistant, the H5A Corner camera can handle the harshest attempts to destroy, detach, attach to or disable it in high-risk environments.

## SPECIFICATIONS

| MODEL NAME | H5A CORNER, STAINLESS STEEL | | H5A CORNER, COLD-ROLLED STEEL | |
|---|---|---|---|---|
| PART NUMBER | **R** C-H5A-CR1-IR-SS | | **R** C-H5A-CR1-IR | |
| Resolution **R** | ❸ MP | ❺ MP | ❸ MP | ❺ MP |
| Image Sensor | 1/2.8" progressive scan CMOS | | | |
| Max. Dynamic Range | WDR Off: 83 dB<br>WDR On: 126 dB | | | |
| Max. Image Rate (50 Hz / 60 Hz) | WDR Off: 25 fps / 30 fps<br>WDR On: 20 fps / 20 fps | | | |
| Max. IR Illumination Distance[1] (high power 940 nm LED) | 15 m (49 ft) | | | |
| Environmental | IP66 and IP67 Weather Rating, NEMA 4X Enclosure Rating, IK10+ Impact Rating | | IP66 and IP67 Weather Rating, IK10+ Impact Rating | |

| LENS (REMOTE ZOOM AND FOCUS) | | |
|---|---|---|
| 3 - 9 mm, F1.3, P-Iris | Horizontal Angle of View (16:9 and 4:3) | 34° – 105° |
| | Vertical Angle of View (16:9 / 4:3) | 19° – 57° / 26° – 77° |
| | Minimum Illumination (color / monochrome) | 0.027 lux in color mode, 0.014 lux in monochrome mode, 0 lux with IR |

## KEY FEATURES

- Next-Generation Video Analytics
- Avigilon Appearance Search Technology
- Wide Dynamic Range Support
- FIPS-Compliant Cryptography Available[2]
- Extended Temperature Range
- No Face Mask Detection, Occupancy Counting, Social Distancing Technology
- Unusual Activity Detection
- Facial Recognition Technology
- Compliant with ONVIF Profile S, T and G
- H.264 & H.265 HDSM SmartCodec Technology, Motion JPEG
- Invisible IR LED Light

## AUDIO, POWER & STORAGE

| | |
|---|---|
| Audio Compression Method | Opus, G.711 PCM 8 kHz |
| Audio Input/Output | Line level I/O or built-in microphone |
| External I/O Terminals | Alarm In, Alarm Out |
| External Power Source | VDC: 12 V ± 10%, 12 W min; VAC: 24 V ± 10%, 13 VA min |
| PoE Power Source | IEEE802.3af Class 3 compliant |
| Onboard Storage | microSD/microSDHC/microSDXC slot – video speed class required. Class V10 or better recommended. |

[1] IR illumination power may be reduced at higher operating temperatures.

[2] Additional license required — see page 38.

Part number varies based on camera resolution **R**.

## LEARN MORE

# H5A DUAL HEAD CAMERAS

The new Avigilon H5A Dual Head Camera is a cost-effective and low profile dual-sensor camera that brings enhanced security to any site, by increasing coverage and minimizing blind posts for those hard to secure areas.

## SPECIFICATIONS

| MODEL NAME | SURFACE MOUNT DUAL HEAD CAMERA | |
|---|---|---|
| **PART NUMBER** | **R** C -H5DH-DO1-IR | |
| Resolution **R** | **6** MP (2x 3 MP) | **10** MP (2x 5 MP) |
| Image Sensor | 1/2.7" progressive scan CMOS | |
| Max. Dynamic Range | WDR Off: up to 82 dB, WDR On: up to 120 dB | |
| Max. Image Rate (50 Hz / 60 Hz) | Analytics[1]: 24 fps / 25 fps<br>High Frame Rate Mode: 30 fps / 25 fps | Analytics[1]: 15 fps / 12.5 fps<br>High Frame Rate Mode: 24 fps / 20 fps |
| Max. IR Illumination Distance[2] (high power 850 nm LED) | Wide: 15 m (49 ft) , Tele: 30 m (98 ft) | |
| Environmental | UL/CSA/IEC 60950-22, IEC 62262 IK10+ Impact Rating | |
| Lens | 3.35-7.0 mm, F/1.93 remote focus and zoom | |

## KEY FEATURES

- Next-Generation Video Analytics
- Unusual Activity Detection
- Avigilon Appearance Search Technology
- Facial Recognition Technology
- Wide Dynamic Range Support
- Compliant with ONVIF Profile S and T
- FIPS-Compliant Cryptography Available[3]
- H.264 & H.265 HDSM SmartCodec Technology, Motion JPEG
- Extended Temperature Range
- Invisible IR LED Light
- LightCatcher Technology
- Audio Recording Capabilities (Optional)
- No Face Mask Detection, Occupancy Counting, Social Distancing Technology

## AUDIO, POWER & STORAGE

| | |
|---|---|
| Audio Compression Method | Opus, G.711 PCM 8 kHz |
| Audio Input/Output | Line level I/O |
| External I/O Terminals | Alarm In, Alarm Out |
| External Power Source | 13W max |
| PoE Power Source | IEEE802.3af Class 3 compliant |
| Onboard Storage | 2 × microSD/microSDHC/microSDXC slot – video speed class required. Class V10 or better recommended. Currently one of the two SD card slots is available for onboard storage. |

[1] Maximum image rate with analytics enabled on all sensors.

[2] IR illumination power may be reduced at certain operating temperatures.

[2] Additional license required — see page 38.

Part number varies based on camera resolution **R**.

**LEARN MORE**

# H5A-PTZ CAMERAS

Combines 360° views for wide area coverage and powerful 36x zoom for long range, evidentiary detail to help you monitor vast areas with ease.

## SPECIFICATIONS

| MODEL NAME | INDOOR IN-CEILING | | | INDOOR/OUTDOOR PENDANT | | |
|---|---|---|---|---|---|---|
| PART NUMBER | Ⓡ C-H5A-PTZ-DC36 | | | Ⓡ C-H5A-PTZ-DP36 | | |
| Resolution Ⓡ | ❷ MP | ❹ MP | ❽ MP | ❷ MP | ❹ MP | ❽ MP |
| Image Sensor | 1/2.8" progressive scan CMOS | 1/2.5" Type "Exmor R" CMOS Sensor | | 1/2.8" progressive scan CMOS | 1/2.5" Type "Exmor R" CMOS Sensor | |
| Optical Zoom | Image Stabilization Off: 36x, Image Stabilization On: 30x | | | | | |
| Pan | 360°, endless, 300°/second | | | | | |
| Tilt | -10° to 90°, e-Flip, 300°/second | | | | | |
| Max. Dynamic Range | True WDR: 120+ dB | Digital WDR: 100+ dB | | True WDR: 120+ dB | Digital WDR: 100+ dB | |
| Max. Image Rate | 60 fps | 30 fps | | 60 fps | 30 fps | |
| Environmental | IK10 Impact Rating | | | IK10 Impact Rating, IP66 and IP67 Weather Rating, NEMA 4X Enclosure Rating | | |

| LENS (REMOTE ZOOM AND FOCUS) | | | | | | |
|---|---|---|---|---|---|---|
| 4.3 mm to 129 mm, F/1.6 – F/4.7, autofocus | Horizontal Angle of View | 63.7° – 1.9° | – | 63.7° – 1.9° | – | |
| | Vertical Angle of View | 38.5° – 1.1° | – | 38.5° – 1.1° | – | |
| | Minimum Illumination (color / monochrome) | 0.1 lux (F/1.6) / 0.03 lux (F/1.6) | – | 0.1 lux (F/1.6) / 0.03 lux (F/1.6) | – | |
| 4.4 mm to 88 mm, F/2.0 – F/3.8 | Horizontal Angle of View | – | 69.7° – 2.2° | – | 69.7° – 2.2° | |
| | Vertical Angle of View | – | 42.8° – 1.3° | – | 42.8° – 1.3° | |
| | Minimum Illumination (color / monochrome) | – | 0.3 lux (F/2.0) / 0.09 lux (F/2.0) | – | 0.3 lux (F/2.0) / 0.09 lux (F/2.0) | |

## KEY FEATURES

Next-Generation Video Analytics[1]

Avigilon Appearance Search Technology[1]

Wide Dynamic Range Support

FIPS-Compliant Cryptography Available[2]

No Face Mask Detection & Occupancy Counting

Unusual Activity Detection

Facial Recognition Technology

Compliant with ONVIF Profile S, T and G

H.264 & H.265 HDSM SmartCodec Technology, Motion JPEG

## AUDIO, POWER & STORAGE

| | |
|---|---|
| Audio Compression Method | Opus, G.711 |
| Audio Input/Output | Line level input/output |
| External I/O Terminals | 2 alarm in, 2 alarm out |
| External Power Source | 24 VDC ±10%; 24 VAC rms ±10%, 50 or 60 Hz |
| PoE Power Source | 60 W PoE: IEEE 802.3bt Class 6 PoE++, 60 W Cisco UPoE, Microsemi 60 W or higher midspans<br>30 W PoE: IEEE 802.3bt, 802.3at Class 4 PoE+ |
| Onboard Storage | 2 × microSD/microSDHC/microSDXC slot – video speed class required. Class V10 or better recommended. |

[1] At home position only.
[2] Additional license required — see page 38.

Part number varies based on camera resolution Ⓡ.

## LEARN MORE

2 MP        4 MP / 8 MP

# H5A RUGGED PTZ CAMERA

No matter how hard conditions get, this reliable and durable camera can withstand the most severe weather conditions, extreme impact and wind speeds up to 143 mph (230 kph).

## SPECIFICATIONS

| MODEL NAME | 2 MP H5A RUGGED PTZ | 4 MP H5A RUGGED PTZ | 8 MP H5A RUGGED PTZ |
|---|---|---|---|
| PART NUMBER | 2.0C-H5A-RGDPTZ-DP36 | 4.0C-H5A-RGDPTZ-DP36 | 8.0C-H5A-RGDPTZ-DP36 |
| Resolution | 2 MP | 4 MP | 8 MP |
| Image Sensor (progressive scan CMOS) | 1/2.8" Progressive Scan CMOS | 1/2.5" Type "Exmor R" CMOS Sensor | |
| Max. Dynamic Range | 120+ dB | 100 dB | |
| Max. Image Rate | Up to 60 fps | Up to 30 fps | |
| Environmental | Type 4X/6P; MIL-STD-167-1A and 810G; IK10; IP66, 67 and 68; NEMA TS2 | | |

| LENS | | | |
|---|---|---|---|
| Lens | 4.3 to 129 mm, F/1.6 - F/4.7, autofocus | 4.4 to 88 mm, F/2.0 - F/3.8 | |
| Angle of View | Horizontal: 63.7° - 1.9° <br> Vertical: 38.5° – 1.1° | Horizontal: 69.7° - 2.2° <br> Vertical: 42.8° – 1.3° | |
| Zoom | 36x[1] | | |
| Minimum Illumination | 0.1 lux (F/1.6) in color mode; <br> 0.03 lux (F/1.6) in monochrome mode | 0.3 lux (F/2.0) in color mode; <br> 0.09 lux (F/2.0) in monochrome | |

| IR & WHITE LIGHT ILLUMINATION – OPTIONAL | | |
|---|---|---|
| AVUEI8AA: IR Illuminator, 850 nm | Up to 100 m (328 ft) | Up to 30 m (98 ft) |
| AVUEI8AAP: Long Distance IR Illuminator, 850 nm | Up to 200 m (656 ft) | Up to 75 m (246 ft) |
| AVUEI9AA: IR Illuminator, 940 nm | Up to 75 m (246 ft) | Up to 20 m (66 ft) |
| AVUEIWAA: White Light Illuminator | Up to 150 m (492 ft) | Up to 50 m (164 ft) |
| AVUEIWAAP: Long Distance White Light Illuminator | Up to 200 m (656 ft) | Up to 100 m (328 ft) |

## KEY FEATURES

- Next-Generation Video Analytics[2]
- Avigilon Appearance Search Technology[2]
- FIPS-Compliant Cryptography Available[3]
- Wide Dynamic Range Support
- Unusual Activity Detection[2]
- Facial Recognition Technology[2]
- Compliant with ONVIF Profile S, T and G
- H.264 & H.265 HDSM SmartCodec Technology, Motion JPEG

LEARN MORE

## AUDIO, POWER & STORAGE

| | |
|---|---|
| Audio Input/Output | None |
| External I/O Terminals | 2 Alarm In, 2 Alarm Out |
| External Power Source | 24 VDC ±10% or 24 VAC rms ±10%, 50 or 60 Hz |
| PoE Power Source[4] | 90 W PoE: Phihong POE90U-1BT6-A-RC (Avigilon part number POE-INJ-BT-90W-NA) |
| Onboard Storage | MicroSD/microSDHC/microSDXC slot – video speed class card required. Class V10 or better recommended. |

[1] 36x zoom is achieved with Image Stabilization off. Image Stabilization set to on will provide 30x zoom
[2] Analytics and AI capabilities are based on the home position only.
[3] Additional license required — see page 38.
[4] High power PoE is only guaranteed with the Phihong POE90U-1BT6-A-RC (Avigilon part number POE-INJ-BT-90W-NA). Contact Avigilon Sales or Technical Support for more information.

# H5SL CAMERAS

Features wide and long-range lens variants that are available in a variety of resolutions to provide you with a simple, flexible and cost-effective security solution.

## SPECIFICATIONS

| MODEL NAME | H5SL BULLET | | | | H5SL DOME (OUTDOOR) | | | | H5SL DOME (INDOOR) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PART NUMBER | – | | | | Ⓡ C-H5SL-DO1 | | | | Ⓡ C-H5SL-D1 | | | |
| WITH OPTIONAL IR ILLUMINATORS | Ⓡ C-H5SL-BO Ⓛ-IR | | | | Ⓡ C-H5SL-DO1-IR | | | | Ⓡ C-H5SL-D1-IR | | | |
| Resolution per Sensor (MP) Ⓡ | 1.3 | 2.0 | 3.0 | 5.0 | 1.3 | 2.0 | 3.0 | 5.0 | 1.3 | 2.0 | 3.0 | 5.0 |
| Image Sensor (progressive scan CMOS) | 1/2.8" | | | | | | | | | | | |
| Max. Dynamic Range | 120 dB | | | | | | | | | | | |
| Max. Image Rate | 30 fps | | | 25 fps | 30 fps | | | | 30 fps | | | 25 fps |
| Max. IR Illumination Distance | 70 m (230 ft)[1] | | | | 30 m (100 ft)[1] | | | | | | | |
| Environmental | IK10 impact rating, IP66 and IP67 weather rating | | | | | | | | – | | | |

| LENS OPTIONS Ⓛ (REMOTE ZOOM AND FOCUS) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ❶ 3–9 mm, F1.4 | Max. Angle of View[3] | – | | | | | | | 35° – 90° | | | – |
| | Minimum Illumination (color / monochrome) | – | | | | | | | 0 lux[2] | | | – |
| ❶ 3.1–8.4 mm, F1.6 | Max. Angle of View[3] | 34° – 91° | | 35° – 90° | | 35° – 90° | | | – | | | 35° – 90° |
| | Minimum Illumination (color / monochrome) | 0 lux[2] | | | | | | | | | | |
| ❷ 9.5–31 mm, F1.4 | Max. Angle of View[3] | – | | 10° – 32° | 9.5° – 30° | – | | | | | | |
| | Minimum Illumination (color / monochrome) | – | | 0 lux[2] | | – | | | | | | |

## KEY FEATURES

⬛ Unusual Motion Detection

⬛ LightCatcher Technology

⬛ Wide Dynamic Range Support

⬛ Compliant with ONVIF Profile S and Profile T

⬛ H.264 & H.265 HDSM SmartCodec Technology, Motion JPEG

## LEARN MORE

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## AUDIO, POWER & STORAGE

| | |
|---|---|
| Audio Compression Method | Opus, G.711 PCM 8 kHz |
| Audio Input/Output | Line level input/output |
| External I/O Terminals | Alarm in, alarm out |
| PoE Power Source | IEEE802.3af Class3 compliant |
| Onboard Storage | microSD/microSDHC/microSDXC slot – video speed class required. Class V10 or better recommended. |

[1] Varies based on camera settings and lens option — refer to datasheet.
[2] With optional IR.
[3] Based on aspect ratio — refer to datasheet.

Part number varies based on camera resolution Ⓡ and lens option number Ⓛ.

# H5M CAMERAS

Small and mighty, the H5M camera can handle tough environmental conditions while offering advanced AI technology for faster response times and simple installation.

## SPECIFICATIONS

| MODEL NAME | H5M | |
|---|---|---|
| **PART NUMBER** | **Ⓡ.0C-H5M-DO1-IR** | |
| Resolution (MP) Ⓡ | ❷ MP | ❺ MP |
| Image Sensor (progressive scan CMOS) | 1/2.8" | |
| Max. Dynamic Range (dual exposure) | 110 dB | |
| Max. Image Rate | 30 fps | 24 fps |
| Max. IR Illumination Distance (at 0 lux) | 15 m (50 ft) | |
| Environmental | -30 °C to +55 °C (-22 °F to 131 °F) | |

| LENS | | | |
|---|---|---|---|
| 2.8mm, F1.2, IR Corrected | Angle of View | (16:9) 112°<br>(5:4) 72°<br>(4:3) 82° | (5:4) 103°<br>(4:3) 104° |
| | Minimum Illumination (color / monochrome) | 0.04 lux / 0.02 lux | 0.02 lux / 0.01 lux |

## KEY FEATURES

- Unusual Motion Detection
- LightCatcher Technology
- Wide Dynamic Range Support
- Compliant with ONVIF Profile S and Profile T
- H.264 & H.265 HDSM SmartCodec Technology, Motion JPEG

## LEARN MORE

## AUDIO, POWER & STORAGE

| | |
|---|---|
| External I/O Terminals | None |
| PoE Power Source | IEEE802.3af Class 0 compliant |
| Onboard Storage | None |

Part number varies based on camera resolution Ⓡ .

# H4 MINI DOME CAMERAS

Our smallest and most discreet camera, providing exceptional image quality
for your indoor security needs at an entry-level price point.

## SPECIFICATIONS

| MODEL NAME | | H4 MINI DOME | |
|---|---|---|---|
| PART NUMBER | | (R) C-H4M-D1 | |
| WITH OPTIONAL IR ILLUMINATORS | | (R) C-H4M-D1-IR | |
| Resolution (R) | (1.3) MP | (2) MP | (3) MP |
| Image Sensor (progressive scan CMOS) | | 1/2.8" | |
| Max. Dynamic Range | | 100 dB | |
| Max. Image Rate | 30 fps | | 20 fps |
| Max. IR Illumination Distance (at 0 lux) | | 10 m (33 ft) | |
| Environmental | | Indoor applications | |

| LENS | | | |
|---|---|---|---|
| 2.8mm, F1.2, IR Corrected | Angle of View | (5:4) 74°<br>(16:9) 110° | (5:4) 94°<br>(16:9) 100°<br>(4:3) 100° |
| | Minimum Illumination (color / monochrome) | 0.01 lux / 0 lux[1] | 0.02 lux / 0 lux[1] |

## KEY FEATURES

- Unusual Motion Detection
- LightCatcher Technology
- Wide Dynamic Range Support
- Compliant with ONVIF Profile S and Profile T
- H.264 & H.265 HDSM SmartCodec Technology, Motion JPEG

## LEARN MORE

## AUDIO, POWER & STORAGE

| External I/O Terminals | None |
|---|---|
| PoE Power Source | IEEE802.3af Class 0 compliant |
| Onboard Storage | None |

[1] With optional IR.

Part number varies based on camera resolution (R).

# H4 MULTISENSOR CAMERAS

Combines self-learning video analytics with exceptional coverage, featuring three or four individually-adjustable camera sensors that can be positioned to monitor virtually any area.

## SPECIFICATIONS

| MODEL NAME | 3-SENSOR | | | 4-SENSOR | | |
|---|---|---|---|---|---|---|
| PART NUMBER[1] | **R** C-H4A-3MH- **C** | | | **R** C-H4A-4MH- **C** | | |
| Resolution **R** (total / per sensor) | **9** MP / 3 MP | **15** MP / 5 MP | **24** MP / 8 MP | **12** MP / 3 MP | **20** MP / 5 MP | **32** MP / 8 MP |
| Image Sensor (progressive scan CMOS) | 1/2.8" | | 1/2.5" | 1/2.8" | | 1/2.5" |
| Max. Dynamic Range | 100 dB | | | | | |
| Max. Image Rate[2] | 30 fps | 20 fps | 15 fps | 20 fps | 15 fps | 10 fps |
| Max. IR Illumination Distance (at 0 lux) | 30 m (98 ft) | | | | | |
| Environmental | IP66 weather rating, IK10 impact rating. Surface Mount and Pendant only. | | | | | |

| LENS OPTIONS  (Remote Zoom and Focus) | | | | | | |
|---|---|---|---|---|---|---|
| 2.8 mm, F1.2 | Total Coverage **C** | **270**° | – | | **360**° | – |
| | Minimum Illumination (color / monochrome) | 0.025 lux / 0.005 lux[4] | – | | 0.025 lux / 0.005 lux | – |
| 4 mm, F1.6 | Total Coverage **C** | **180**° | | – | | |
| | Minimum Illumination (color / monochrome) | 0.05 lux / 0.010 lux[4] | | – | | |
| 4 mm, F1.8 | Total Coverage **C** | – | **270**° | – | | **360**° |
| | Minimum Illumination (color / monochrome) | – | 0.2 lux / 0.04 lux[4] | – | | 0.2 lux / 0.04 lux[4] |
| 5.2 mm, F1.8 | Total Coverage **C** | – | **180**° | – | | |
| | Minimum Illumination (color / monochrome) | – | 0.2 lux / 0.04 lux[4] | – | | |

## KEY FEATURES

- LightCatcher Technology
- Wide Dynamic Range Support
- Self-Learning Video Analytics
- Compliant with ONVIF Profile S and Profile T
- H.264 & H.265 HDSM SmartCodec Technology, Motion JPEG

## LEARN MORE

## AUDIO, POWER & STORAGE

| Audio Compression Method | G.711 PCM 8 kHz |
|---|---|
| Audio Input/Output | Line level input/output |
| External I/O Terminals | Alarm in, alarm out |
| External Power Source | 24 VDC ± 10%; 24 VAC rms ± 10%, 50 or 60Hz |
| PoE Power Source | 25.5W PoE+, IEEE 802.3at Type 2 PoE Plus<br>With IR: 51W PoE++<br>Without IR: 25.5W PoE+, IEEE 802.3at Type 2 PoE Plus |
| Onboard Storage | MicroSD/microSDHC/microSDXC slot – video speed class required. Class V10 or better recommended. |

[1] This is the part number for the camera module only.  Please see accessories page for mounting adapters.
[2] Using High Frame Rate Mode. Image rate is affected by analytics settings — refer to camera datasheet.
[3] Compatible with matching Avigilon 60W Injector.
[4] 0 lux with optional IR illuminator.

Part number varies based on camera resolution **R** and coverage **C**.

# H4 IR PTZ CAMERAS

Offers powerful zoom and IR technology to provide broad coverage and allow you to see up to 250 m (820 ft) in complete darkness.

## SPECIFICATIONS

| MODEL NAME | H4 IR PTZ | |
|---|---|---|
| PART NUMBER | **R** .0C-H4IRPTZ-DP **Z** | |
| WITH OPTIONAL WIPER | **R** .0C-H4IRPTZ-DP **Z** -WP | |
| Resolution **R** | **1** MP | **2** MP |
| Image Sensor (progressive scan CMOS) | 1/2.8" | |
| Optical Zoom **Z** | **45** x | **30** x |
| Pan | 360°, endless, 300°/second | |
| Tilt | -20° to 90°, Auto-Flip, 300°/second max | |
| Max. Dynamic Range | 120+ dB | |
| Max. IR Illumination Distance (at 0 lux) | 250 m (820 ft) | |
| Environmental | IP66 weather rating, IK10 impact rating | |

| LENS (REMOTE ZOOM AND FOCUS) | | | |
|---|---|---|---|
| 4.3–129 mm, F1.6–F4.7, Autofocus | Angle of View | 1.5° – 63.7° | 2.3° – 63.7° |
| | Minimum Illumination | 0 lux | |

## KEY FEATURES

- Maximum Image Rate of 60 fps
- Wide Dynamic Range Support
- LightCatcher Technology
- H.264 HDSM SmartCodec Technology, Motion JPEG
- Self-Learning Video Analytics
- Compliant with ONVIF Profile S

## LEARN MORE

## AUDIO, POWER & STORAGE

| | |
|---|---|
| Audio Compression Method | G.711 PCM 8 kHz |
| Audio Input/Output | Line level input/output |
| External I/O Terminals | 4 alarm in, 2 alarm out |
| External Power Source | VDC: 24 V, VAC: 24 V |
| PoE Power Source | 60W PoE++ or 90W PoE++* |
| Onboard Storage | microSD/microSDHC/microSDXC slot |

* Power consumption depends on temperature requirements.
Compatible with matching Avigilon 60W or 95W Injector.

Part number varies based on camera resolution **R** and zoom capabilities **Z**.

# H4 THERMAL CAMERAS

Combines patented self-learning video analytics with thermal technology to provide you with long-range perimeter protection, even under the most challenging conditions.

## SPECIFICATIONS

| MODEL NAME | | H4 THERMAL QVGA | | | H4 THERMAL VGA | |
|---|---|---|---|---|---|---|
| **PART NUMBER** | 320S-H4A-THC-BO50 | 320S-H4A-THC-BO24 | 320S-H4A-THC-BO12 | 640S-H4A-THC-BO50 | 640S-H4A-THC-BO24 | 640S-H4A-THC- BO12[1] |
| Resolution | | 320x256[2] | | | 640x512[3] | |
| Sensitivity | | | NETD <60mK | | | |
| Image Sensor | | | Uncooled VOx Microbolometer | | | |
| Dynamic Range | | | -40 °C to 225 °C (-40 °F to 437 °F)[4] | | | |
| Operating Temperature Range | | | -40 ºC to +65 ºC (-40 ºF to 149 ºF) | | | |
| Environmental | | IP66 weather rating, IK10 impact rating | | | IP66 and IP67 weather rating, IK10 impact rating[5] | |
| ONVIF Compliance | | Profile S and Profile T | | | Profile S | |

| LENS OPTIONS | | | | | | | |
|---|---|---|---|---|---|---|---|
| 4.3 mm, F1.0, Athermalized | Angle of View | 45.9° | – | – | – | – | – |
| | Classified Object Detection Range | Human: 68 m (224 ft) Vehicle: 80 m (263 ft)[6] | – | – | – | – | – |
| 9.1 mm, F1.0, Athermalized | Angle of View | – | 21.6° | – | – | – | – |
| | Classified Object Detection Range | – | Human: 150 m (493 ft) Vehicle: 160 m (525 ft)[6] | – | – | – | – |
| 8.7 mm, F1.0, Athermalized | Angle of View | – | – | – | 50.7º | – | – |
| | Classified Object Detection Range | – | – | – | Human: 120 m (394 ft) Vehicle: 142 m (466 ft)[6] | – | – |
| 18.0 mm, F1.0, Athermalized | Angle of View | – | – | 10.8º | – | 24.3º | – |
| | Classified Object Detection Range | – | – | Human: 220 m (722 ft) Vehicle: 225 m (739 ft)[6] | – | Human: 210 m (689 ft) Vehicle: 225 m (739 ft)[6] | – |
| 36.0 mm, F1.0, Athermalized | Angle of View | – | – | – | – | – | 12.2º |
| | Classified Object Detection Range | – | – | – | – | – | Human: 310 m (1017 ft) Vehicle: 319 m (1047 ft)[6] |

## KEY FEATURES

⬡ Maximum Image Rate of 8.6 fps

〰 H.264 HDSM SmartCodec Technology, Motion JPEG

▣ Self-Learning Video Analytics

## LEARN MORE

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## AUDIO, POWER & STORAGE

| | |
|---|---|
| Audio Compression Method | G.711 PCM 8 kHz |
| Audio Input/Output | Line level input/output |
| External I/O Terminals | Alarm in, alarm out |
| External Power Source | VDC: 12 V, VAC: 24 V |
| PoE Power Source | IEEE802.3af Class 3 compliant |
| Onboard Storage | SD/SDHC/SDXC slot (minimum class 4, class 6 or better recommended) |

[1] Image shows this model.
[2] Can be scaled up to 640x512.
[3] Can be scaled down to 320x256.
[4] May vary based on operating temperature.
[5] Enclosure only.
[6] Detection ranges may vary in different weather conditions.

# H4 ELEVATED TEMPERATURE DETECTION (ETD) SOLUTION

Provides a low friction, contactless alternative to traditional screening methods and enables high-throughput pre-screening of people to detect indications of elevated body temperature.

## SPECIFICATIONS

| MODEL NAME | H4 ELEVATED TEMPERATURE DETECTION SOLUTION |
|---|---|
| PART NUMBER | H4A-ETD-KIT |
| Image Sensor | 640x512 |
| Accuracy | ±0.5 °C (±0.9 °F) for ambient temperature 18–25 °C (65–77 °F) |
| Sensitivity | NETD <60mK |
| Pixel Pitch | 12 µm |
| Spectral Range | 8 µm to 14 µm |
| Operating Temperature | 18 to 25 °C (65 to 77 °F) |
| Aspect Ratio | 5:4 |
| Angle of View (H x V) | 50.7° x 40.4° |
| Imaging Rate | 8.6 fps |
| Lens | 8.7 mm, F1.0, Athermalized |
| Environmental | IK10 Impact Rating[1] |

## KEY FEATURES

- Face Detection
- Temperature Overlay on Detected Face
- Elevated Temperature Alerts
- Audio Capabilities
- Auto Detection of Inner Canthus Region
- H.264 HDSM SmartCodec Technology
- Relay I/O Connections

## KIT INCLUDES

| |
|---|
| Bullet camera |
| Blackbody |
| 2 Tripods |
| 2 Tilt Adapters |

[1] Enclosure only

## LEARN MORE

# H4ES CAMERA LINE

Combines HD imaging, self-learning video analytics, network video recorder functionality and embedded ACC™ software to create an all-in-one video security solution.

## SPECIFICATIONS

| MODEL NAME | | OUTDOOR DOME – SURFACE | | | OUTDOOR DOME – PENDANT | | | INDOOR/OUTDOOR BULLET | | | BOX | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PART NUMBER | 128 GB ONBOARD STORAGE | 1.0C-H4A-12G-DO1-IR | | | 1.0C-H4A-12G-DP1-IR | | | (R).0C-H4A-12G-BO(L)-IR | | | 1.0C-H4A-12G-B1 | | |
| | 256 GB ONBOARD STORAGE | (R).0C-H4A-25G-DO1-IR | | | (R).0C-H4A-25G-DP1-IR | | | (R).0C-H4A-25G-BO(L)-IR | | | (R).0C-H4A-25G-B1 | | |
| Resolution (MP) (R) | | ❶ | ❷ | ❸ | ❶ | ❷ | ❸ | ❶ | ❷ | ❸ | ❶ | ❷ | ❸ |
| Image Sensor (progressive scan CMOS) | | 1/2.8" | | | | | | | | | | | |
| Max. Dynamic Range | | 120 dB | | | | | | | | | | | |
| Max. IR Illumination Distance (at 0 lux) | | 30 m (98 ft) | | | | | | 70 m (230 ft)[1] | | | – | | |
| Environmental | | IK10 impact rating, IP66 weather rating | | | | | | | | | – | | |
| Power Source | External Power | VDC: 12 V, VAC: 24 V | | | | | | VDC: 12 V, VAC: 24 V | | | VDC: 12 V, VAC: 24 V | | |
| | PoE | PoE: IEEE802.3af Class 3 compliant | | | | | | | | | | | |
| Onboard Storage (Solid-State Drive) | | 128 GB | 256 GB | 256 GB | 128 GB | 256 GB | 256 GB | 128 GB | 256 GB | 256 GB | 128 GB | 256 GB | 256 GB |

| LENS OPTIONS (L) (REMOTE ZOOM AND FOCUS) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ❶ 3–9 mm, F1.3, P-Iris | Max. Angle of View | 30° – 91° | | 32° – 98° | 30° – 91° | | 32° – 98° | 30° – 91° | | 32° – 98° | – | | |
| | Minimum Illumination (color / monochrome) | 0.04 lux / 0.008 lux | | | 0.04 lux / 0.008 lux | | | 0.04 lux / 0 lux | | | – | | |
| ❷ 9–22 mm, F1.6, P-Iris | Max. Angle of View | – | | | | | | 14° – 29° | | 15° – 31° | – | | |
| | Minimum Illumination (color / monochrome) | – | | | | | | 0.08 lux / 0 lux | | | – | | |
| ❸ 4.7–84.6 mm, F1.6, P-Iris | Max. Angle of View | – | | | | | | | | | 3.3° – 55° | | 3.5° – 59° |
| | Minimum Illumination (color / monochrome) | – | | | | | | | | | 0.08 lux / 0.016 lux | | |

## KEY FEATURES

- Maximum Image Rate of 30 fps[2]
- Wide Dynamic Range Support
- LightCatcher Technology
- H.264 HDSM SmartCodec Technology, Motion JPEG
- Self-Learning Video Analytics
- Unusual Motion Detection
- Compliant with ONVIF Profile S and Profile T

## AUDIO, POWER & STORAGE

| | |
|---|---|
| Audio Compression Method | G.711 PCM 8 kHz |
| Audio Input/Output | Line level input/output |
| External I/O Terminals | Alarm in, alarm out |

[1] With 9–22 mm lens. Max. IR illumination distance varies based on lens and temperature — please refer to camera datasheet.

[2] High frame rate mode

Part number varies based on camera resolution (R) and lens option number (L).

## LEARN MORE

# H4 VIDEO INTERCOM

Integrates a fisheye camera with a high-performance intercom, featuring echo-canceling and noise reduction technologies, for clear two-way communication.

## SPECIFICATIONS

| MODEL NAME | H4 VIDEO INTERCOM |
|---|---|
| PART NUMBER | 3.0C-H4VI-RO1-IR |
| Resolution | 3 MP |
| Image Sensor (progressive scan CMOS) | 1/2.8" |
| Max. Dynamic Range | 120 dB |
| Max. IR Illumination Distance (at 0 lux) | 5 m (15 ft) |
| Environmental | IP66 weather rating, IK10 impact rating[1] |

| LENS | | |
|---|---|---|
| Fisheye, 1.83 mm, F2.4, IR Corrected | Angle of View | 170° |
| | Minimum Illumination | 0 lux |

## KEY FEATURES

- Maximum Image Rate of 30 fps
- Avigilon Appearance Search Technology
- Self-Learning Video Analytics
- LightCatcher Technology
- Wide Dynamic Range Support
- H.264 HDSM SmartCodec Technology, Motion JPEG
- Compliant with ONVIF Profile S

## LEARN MORE

## AUDIO, POWER & STORAGE

| | |
|---|---|
| Audio Compression Method | Opus, G.711 |
| Audio Input/Output | Built-in microphone with hardware disable / built-in speaker |
| External I/O Terminals | 1 alarm in, 2 alarm out, 1 tamper out |
| External Power Source | VDC: 12V |
| PoE Power Source | IEEE802.3af Class 3 compliant |
| Onboard Storage | microSD/microSDHC/microSDXC slot |

[1] IK08 Impact Rating on bubble.

# FIPS CRYPTOGRAPHY SUPPORT

Enables Avigilon cameras to be deployed at sites requiring FIPS-compliant cryptography. Configure FIPS compliant (FIPS 140-2 Level 1 and 3) cryptography mode for supported Avigilon cameras to encrypt data-in-flight to Avigilon FIPS Series Network Video Recorders (NVR).

## OPTIONAL FIPS LICENSE AVAILABILITY

| FIPS LEVEL | FIPS LEVEL 1 ENCRYPTION | FIPS LEVEL 3 ENCRYPTION |
|---|---|---|
| PART NUMBER | CAM-FIPS | CAM-FIPS-CRYPTR-L3 |
| DESCRIPTION | Camera license to enable FIPS Level 1 cryptographic mode on H5A camera | CRYPTR microSD cards enable hardware-based, tamper-proof protection of encryption keys and certificates for FIPS Level 3 cryptography on all Avigilon H5A Cameras equipped with micro SD card slots. |
| H5 Pro Cameras | ✓ | ✓ |
| H5A Cameras[1] | ✓ | ✓ |
| H5A Fisheye Cameras | ✓ | ✓ |
| H5A Corner Cameras[1] | ✓ | ✓ |
| H5A Dual Head Cameras | ✓ | ✓ |
| H5A-PTZ Cameras | ✓ | ✓ |
| H5A Rugged PTZ Cameras | ✓ | ✓ |

[1] Single microSD card slot, which can be used for either one of ONVIF Profile G recording or FIPS Level-3 encryption at any one time.
 Alternatively, customers may choose the camera license option for FIPS Level-1 encryption if the card slot is employed for ONVIF Profile G.

# FIXED CAMERA ACCESSORIES

## H5 PRO CAMERAS

| TYPE | PART NUMBER |
|---|---|
| IP66-rated large housing w/ heater and wall arm | ES-HD-HWS-LG |
| Large housing w/ cooling fan and wall arm | ES-HD-CWS-LG |
| IP66-rated extra large house w/ heater. Wall arm sold separately. | ES-HD-HS-XL |

## H5 PRO CAMERA LENS OPTIONS

| DESCRIPTION | PART NUMBER |
|---|---|
| Sigma 28mm f/1.4 | LEF2814SI |
| Sigma 30mm f/1.4 | LEFS3014SI |
| Tamron 35mm f/1.4 | LEF3514TA |
| Canon 40mm f/2.8 | LEF4028CA |
| Sigma 50mm f/1.4 | LEF5014SI |
| Tamron 90mm f/2.8 | LEF9028TA |
| Canon 16-35mm f/2.8 | LEF163528CA2 |
| Sigma 18-35mm f/1.8 | LEFS183518SI |
| Tamron 24-70mm f/2.8 VC | LEF247028TA2 |
| Tamron 70-200mm f/2.8 VC | LEF7020028TA |
| Tamron 150-600mm f/5-6.3 VC | LEF1506005TA |

## H5A DOME CAMERAS

| TYPE | PART NUMBER |
|---|---|
| Clear dome bubble | H4A-DD-CLER1 |
| | H4A-DC-CLER1 |
| | H4A-DO-CLER1 |
| | H4A-DP-CLER1 |
| | H4A-DD-CLER1-BL* |
| | H4A-DC-CLER1-BL* |
| Smoke dome bubble | H4A-DD-SMOK1 |
| | H4A-DC-SMOK1 |
| | H4A-DO-SMOK1 |
| | H4A-DP-SMOK1 |
| | H4A-DD-SMOK1-BL* |
| Metal ceiling panel | H4A-DC-CPNL1 |
| Indoor dome camera sidewall knockout plug, pack of 5 | H4A-DD-SDWL1 |
| Pendant NPT mount | H4A-MT-NPTA1 |
| Pendant wall arm mount | H4A-MT-WALL1 |
| Corner mount adapter | H4-MT-CRNR1 |
| Pole mount adapter | H4-MT-POLE1 |
| PoE injector | POE-INJ2-STD |
| USB WiFi adapter | H4-AC-WIFI1-NA |
| | H4-AC-WIFI2-EU |

## H5A BULLET & H4 THERMAL CAMERAS

| TYPE | PART NUMBER |
|---|---|
| Junction box | H4-BO-JBOX1 |
| Corner mount adapter | H4-MT-CRNR1 |
| Pole mount adapter | H4-MT-POLE1 |
| PoE injector | POE-INJ2-STD |
| USB WiFi adapter | H4-AC-WIFI1-NA |
| | H4-AC-WIFI2-EU |

## H5A BOX CAMERAS

| TYPE | PART NUMBER |
|---|---|
| Small Format Enclosure | ES-HD-HWS-SM |
| Standard Format Enclosure | ES-HD-HWS |
| Standard Format Enclosure for cameras with vented cooler | ES-HD-CWS |
| Optional PoE+ power module[1] | ES-HD-IPM |
| Large pole mount for pole diameter 210mm (8.2 in) to 225mm (8.85 in) | ES-HD-MNT-POLE-LG |
| Medium pole mount for pole diameter 80mm (3 in) to 150mm (5.9 in) | ES-HD-MNT-POLE-MD |
| Ceiling arm mount[2] | ES-HD-MNT-ARM |

[1] Compatible with ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG, ES-HD-CWS-LG.
[2] Compatible with ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG and ES-HD-CWS-LG.

## H5A FISHEYE CAMERAS

| TYPE | PART NUMBER |
|---|---|
| NPT adapter for the H5A Fisheye surface mount camera | H5A-FE-MT-NPTA1 |
| Pendant wall mount, compatible with H5A-FE-MT-NPTA1 | CM-MT-WALL1 |
| Aluminum corner mounting bracket, compatible with CM-MT-WALL1 | H4-MT-CRNR1 |
| Package of 3 dome replacement parts for H5A Fisheye surface mount camera | H5A-FE-DD-CLER1 |
| Metal ceiling panel to reinforce the existing ceiling tile in suspended ceiling installations for H5A Fisheye in-ceiling mount camera | H5A-FE-DC-CPNL1 |

## H5A CORNER CAMERAS

| DESCRIPTION | PART NUMBER |
|---|---|
| USB Wi-Fi adapter | H4-AC-WIFI2-NA / H4-AC-WIFI2-EU |
| 3.5 mm jack with 1.8 m fly wire | CM-AC-AVIO1 |

# FIXED CAMERA ACCESSORIES

## H5A DUAL HEAD CAMERA

| TYPE | PART NUMBER |
|---|---|
| Replacement Dome Cover | H5DH-DI-CLER1 |
| Optional Junction Box Mounting Adapter | H5DH-DO-JBOX1 |
| Optional Pendant NPT Mounting Adapter | H5DH-MT-NPTA1 |
| Pendant Wall Mount Arm | CM-MT-WALL1 |
| Corner Mounting Bracket | H4-MT-CRNR1 |
| Pole Mounting Bracket | H4-MT-POLE1 |
| PoE injector | POE-INJ2-STD |
| USB WiFi adapter | H4-AC-WIFI1-NA |
| | H4-AC-WIFI2-EU |

## H5A-PTZ CAMERA

| TYPE | PART NUMBER |
|---|---|
| NPT Pendant Adapter | IRPTZ-MNT-NPTA1 |
| Wall Arm Mount | IRPTZ-MNT-WALL1 |
| Pole Mounting Bracket | H4-MT-POLE1 |
| Corner Mounting Bracket | H4-MT-CRNR1 |
| Metal Ceiling Panel for In-Ceiling Installation | PTZMH-DC-CPNL1 |
| Clear Bubble Assembly - Replacement | PTZH5A-CLER1 |
| Smoked Bubble Assembly - Replacement | PTZH5A-SMOK1 |
| Gigabit 802.3bt 60W PoE Injector, single port. | POE-INJ-BT-60W-NA |
| 30W PoE+ Injector. Injector operational temperature range is -20ºC (-4ºF) to 40ºC (104ºF). NA/EU/UK/AU options available. | POE-INJ2-PLUS-NA |
| H4 In-Ceiling PTZ audio retrofit kit | PTZ-ACCS-IC-RETRO |
| Cable gland nut kit, pack of 10 | H5PTZ-ACCS-CABL1 |

## H4 IR PTZ CAMERA

| TYPE | PART NUMBER |
|---|---|
| Pendant wall mount | IRPTZMH-MT-WALL1 |
| NPT adapter | IRPTZ-MNT-NPTA1 |
| | H4-MT-CRNR1 |
| | H4MT-POLE1 |

## H5A RUGGED PTZ CAMERA

| TYPE | PART NUMBER |
|---|---|
| Gigabit 802.3bt 90W PoE Injector, single port | POE-INJ-BT-90W-NA |
| IR illuminator, 850 nm | AVUEI8AA |
| Long distance IR illuminator, 850 nm | AVUEI8AAP |
| IR illuminator, 940nm | AVUEI9AA |
| White light illuminator | AVUEIWAA |
| Long distance white light illuminator | AVUEIWAAP |
| Wall arm mount | AVUEBWAA |
| Parapet mounting bracket, internal cable channel | AVUEBP0AA |
| Parapet mounting bracket with quick connectors, RJ45 (Ethernet & PoE) and 4 poles with screw terminal (power & I/O) | AVUEBP4AA |
| Parapet mounting bracket with quick connectors, RJ45 (Ethernet & PoE) and 7 poles to weld (power & I/O) | AVUEBP7AA |
| Pole mount adapter, stainless steel AISI 316L, compatible with wall arm mount | AVUEAP |
| Corner mount adapter, stainless steel AISI 316L, compatible with wall arm mount | AVUEAC |
| Parapet plate mount adapter, stainless steel AISI 316L, compatible with parapet mounting brackets | AVUEAW |
| Washer pump, 5 L water tank, pump up to 5m (16.4 ft), 230VAC / 24VAC / 120VAC input | AVWASPT0V5L5M00 |
| Washer pump, 23 L water tank, pump up to 11m (36 ft), 230VAC / 24VAC / 120VAC input | AVWASPT0V23L11M00 |
| Washer pump, 23 L water tank, pump up to 30m (98 ft), 230VAC input | AVWASPT1V23L30M00 |
| Washer pump, 23 L water tank, pump up to 30m (98 ft), 120VAC input | AVWASPT3V23L30M00 |
| Communication box with power supply and switch, 220-230VAC, polycarbonate | AVCOMB100A |
| Communication box with power supply and switch, 24VAC, polycarbonate | AVCOMB200A |
| Communication box with power supply and switch, 120-127VAC, polycarbonate | AVCOMB300A |
| Surge protector for the Ethernet line | AVSURGEPR |
| Spare wiper blade | AVOUEWIPER |
| Camera maintenance kit (includes 1 x power connector, 1 x I/O connector, 1 x safety chain coupling plate, 2 x M16 cable glands, 1 x M20 cable gland, 1 x reduction gasket for M20 cable gland, 1 x reduction gasket for M16 cable gland, 1 x base gasket, 1 x Allen wrench, 1 x 2.5A fuse)connector, 1 x safety chain coupling plate, 2 x M16 cable glands, 1 x M20 cable gland, 1 x reduction gasket for M20 cable gland, 1 x reduction gasket for M16 cable gland, 1 x base gasket, 1 x Allen wrench, 1 x 2.5A fuse) | AVOUEMAN |

## H5M CAMERA

| TYPE | PART NUMBER |
|---|---|
| In-ceiling mount | H5M-MT-DCIL1 |
| Package of 4 camera shroud replacement parts | H5M-DO-BZL1 |

# FIXED CAMERA ACCESSORIES

## H4 MINI DOME CAMERA

| TYPE | PART NUMBER |
|---|---|
| Package of 5 black surface mount bezels | H4M-BZL-BL1 |
| Grey in-ceiling mount adapter | H4M-MT-DCIL1 |
| Black in-ceiling mount adapter | H4M-MT-DCIL1-BL |
| Grey pendant mount adapter | H4M-MT-NPTA1 |
| Black pendant mount adapter | H4M-MT-NPTA1-BL |
| PoE injector | POE-INJ2-STD |

[1] Compatible with ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG and ES-HD-CWS-LG.
[2] Compatible with ES-HD-HWS-SM, ES-HD-HWS, ES-HD-CWS, ES-HD-HWS-LG and ES-HD-CWS-LG.
[3] Compatible with ES-HD-HS-XL.

## H4 MULTISENSOR CAMERA

| TYPE | PART NUMBER |
|---|---|
| Pendant wall mount (Order one of each of) | H4AMH-AD-PEND1 |
| | H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE |
| | IRPTZ-MNT-WALL1 |
| | Optional, H4AMH-AD-IRIL1 |
| NPT mount (Order one of each of) | H4AMH-AD-PEND1 |
| | H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE |
| | IRPTZ-MNT-NPTA1 |
| | Optional, H4AMH-AD-IRIL1 |
| In-ceiling mount (Order one of each of) | H4AMH-AD-CEIL1 |
| | H4AMH-DC-COVR1 or H4AMH-DC-COVR1-SMOKE |
| | Optional, H4AMH-DC-CPNL1 if ceiling panel needed |
| Surface mount (Order one of each of) | H4AMH-AD-DOME1 |
| | H4AMH-DO-COVR1 or H4AMH-DO-COVR1-SMOKE |
| | Optional, H4AMH-AD-IRIL1 |
| Camera modules | 9C-H4A-3MH-270 |
| | 9C-H4A-3MH-180 |
| | 15C-H4A-3MH-270 |
| | 15C-H4A-3MH-180 |
| | 24C-H4A-3MH-270 |
| | 24C-H4A-3MH-180 |
| | 12C-H4A-4MH-360 |
| | 20C-H4A-4MH-360 |
| | 32C-H4A-4MH-360 |
| Pole mount adapter | H4-MT-POLE1 |
| Corner mount adapter | H4-MT-CRNR1 |
| Optional injectors and switches | ES-PS-S4 |
| | ES-PS-MNT-POLE1 |
| | POE-INJ2-60W |
| | POE-INJ2-PLUS |

## H4SL & H5SL DOME CAMERAS

| TYPE | PART NUMBER |
|---|---|
| In-ceiling mount | H4SL-MT-DCIL1 |
| NPT adapter | H4SL-MT-NPTA1 |
| Pendant wall arm | CM-MT-WALL1 |
| USB WiFi adapter | H4-AC-WIFI1-NA |
| | H4-AC-WIFI2-EU |
| Corner amount adapter | H4-MT-CRNR1 |
| Pole mount adapter | H4-MT-POLE1 |
| Junction box | H4-BO-JBOX1 |
| PoE injector | POE-INJ2-STD |

## H4 LPC CAMERA

| TYPE | PART NUMBER |
|---|---|
| Pedestal and ceiling mount | ES-HD-MNT-PAR |
| Large pole mount | ES-HD-MNT-POLE-LG |
| Medium pole mount | ES-HD-MNT-POLE-MD |
| Small pole mount | ES-HD-MNT-POLE-SM |
| Wall reinforcing plate | ES-HD-MNT-PLATE |
| Corner mount adapter | ES-HD-MNT-CORNER |

## H4 VIDEO INTERCOM

| TYPE | PART NUMBER |
|---|---|
| Surface mount adapter | H4VI-MT-SURF1 |
| Safety relay | H4VI-AC-RELY1 |
| PoE injector | POE-INJ2-STD |
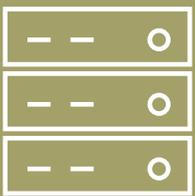
# VIDEO INFRASTRUCTURE

Whether you need a few cameras to monitor strategic areas of your precinct or thousands of cameras to monitor city streets and transportation hubs, using a complete Avigilon solution helps take the risk out of deployment and maintenance. Avigilon Network Video Recorders (NVRs) and appliances are pre-configured for enhanced system performance and to save you time during deployment.

# NVRS & WORKSTATIONS

All models come with high-performance recording technology, a three-year Avigilon warranty with dedicated support and added features for your security needs.

## SPECIFICATIONS

| MODEL NAME | | NVR WORKSTATION | NVR4X VALUE | | | | NVR4X STANDARD | | | | NVR4X PREMIUM | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| PART NUMBER | | NVR4-WKS- C TB | NVR4-VAL- C TB | | | | HD-NVR4X-STD- C TB | | | | HD-NVR4X-PRM- C TB | | | | | |
| Storage (TB) | Total Capacity C | ④ ⑧ | ⑥ | ⑫ | ⑯ | ㉔ | ⑯ | ㉔ | ㉜ | ㊽ | 64 | 96 | 128 | 157 | 192 | 217 |
| | Configuration | 1 x 3.5" HDD | Up to 4x3.5", hot-swappable | | | | Up to 8x3.5", hot-swappable | | | | Up to 12x3.5", hot-swappable | | | | Up to 18x3.5", hot-swappable | |
| | Redundancy | – | RAID 5 | | | | RAID 6 | | | | | | | | RAID 60 | |
| OS Volume | Configuration | 1 x M.2 SSD Drives | Virtual Disk | | | | 2xM.2 SSD Drives | | | | | | | | | |
| | Redundancy | – | RAID 5 | | | | RAID 1 | | | | | | | | | |
| Network Interface | | 2 x 1 GbE | 2 x 1 GbE RJ-45 ports (1000Base-T), 2 x 10GbE SFP+ ports[1] | | | | 4 x 1 GbE RJ-45 ports (1000Base-T), 2 x 10GbE SFP+ ports[1] | | | | 6 x 1 GbE RJ-45 ports (1000Base-T), 2 x 10GbE SFP+ ports | | | | 4 x 1 GbE RJ-45 ports (1000Base-T), 2 x 10GbE SFP+ ports[1] | |
| Max. Recording Rate | 1 GbE | 120 Mbps | Up to 300 Mbps (max. 300 Mbps per connection) | | | | Up to 700 Mbps (max. 250 Mbps per connection) | | | | Up to 700 Mbps (max. 600 Mbps per connection) | | | | | |
| | 10 GbE | – | – | | | | Optional 10 GbE add-on card | | | | Up to 1500 Mbps (max. 1250 Mbps per connection) | | | | | |
| Form Factor | | Small Form Factor | 1U rack mount chassis | | | | 2U rack mount chassis | | | | | | | | | |
| Redundant Power Supply | | – | Single (optional second power supply available) | | | | Dual redundant, hot-swappable | | | | | | | | | |

## CAMERA & ANALYTICS SUPPORT

| MODEL | ANALYTICS KIT | AVIGILON ANALYTICS CAMERAS[2] | | NUMBER OF LPR LANES[3] | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | APPEARANCE SEARCH ONLY | OR FACIAL RECOGNITION + APPEARANCE SEARCH | OR | 5 FPS (16KM/H OR <10MPH) | OR | 10 FPS (<48KM/H OR <30MPH) | OR | 20 FPS (<100KM/H OR <62MPH) | OR 30 FPS (<150KM/H OR <93MPH) |
| NVR4X Value | HD-NVR-ANK2-1 | 50 | 15 | | 2 | | 1 | | 1 | – |
| NVR4X Standard | Built-In | 200 | 50 | | 3 | | 2 | | 1 | – |
| NVR4X Premium | Built-In | 200 | 50 | | 4 | | 3 | | 2 | 1 |

## LEARN MORE

[1] Optional, transceivers not included.

[2] These performance figures are based on validation testing by Avigilon, using Avigilon Control Center™ software version 7.6.4. Assumes appliance-wide average per camera rates of classified objects leaving the field of view:
- H5A cameras: one every second
- H4A cameras: one every two seconds
- Non-analytics cameras running Classified Object Detection: one every second

Additional licenses may be required. For more information, contact Avigilon Sales.

[3] Assumes a 3 MP camera with 1 MP license plate scan area and Frames Per Second (FPS) to recognize license plates up to vehicle speeds in Kilometers Per Hour (KM/H) or Miles Per Hour (MPH). Results may vary according to camera mounting parameters. LPR does not require an Analytics Kit.

Part number varies based on total storage capacity C.

# NVR4X PREMIUM FIPS SERIES

Pre-hardened FIPS-compliant Network Video Recorders provide secure, reliable and scalable platforms for high performance end-to-end security solutions to meet FIPS 140-2 Level 2 Security Requirements and protect data-at-rest.

## SPECIFICATIONS

| MODEL NAME | | NVR4X PREMIUM FIPS SERIES | | | |
|---|---|---|---|---|---|
| PART NUMBER | | NVR4X-PRM-FIPS- **C** TB-NA | | | |
| Storage (TB) | Total Capacity **C** | **64** | **96** | **128** | **157** |
| | Configuration | Up to 12 x 3.5", hot-swappable drives | | | |
| | Redundancy | RAID 6 | | | |
| OS Volume | Configuration | 2 x M.2 SSD | | | |
| | Redundancy | RAID 1 | | | |
| | OS | STIG-Compliant Microsoft Windows Server 2016 | | | |
| Network Interface | | 2 x 10 GbE SFP+ ports (transceivers not included) 6 x 1 GbE RJ-45 ports (1000Base-T) | | | |
| Network Video Streaming Performance[1] | Network Connection (Recording Rate) | 10 GbE – multiple connections[2] (up to 1000 Mbps) 1 GbE – multiple connections (up to 600 Mbps) | | | |
| | Playback Rate | Up to 450 Mbps (while simultaneously recording video) | | | |
| Recording Storage Capacity | | Up to 180 TB raw, 157 TB effective (RAID 6) | | | |
| Memory | | 2 x 16 GB DDR4 | | | |
| Processor | | Intel® Xeon® | | | |
| Avigilon Control Center™ Edition | | Core, Standard and Enterprise compatible | | | |
| Form Factor | | 2U rack mount | | | |
| Local Viewing | | No | | | |

## CAMERA & ANALYTICS SUPPORT

| | AVIGILON ANALYTICS CAMERAS[2] | |
|---|---|---|
| MODEL | APPEARANCE SEARCH ONLY[3]    OR | FACIAL RECOGNITION + APPEARANCE SEARCH[4] |
| NVR4X Premium FIPS Series | Up to 200 cameras | Up to 50 cameras |

## LEARN MORE

[1] These performance figures are based on validation testing by Avigilon, using Avigilon Control Center software. For more information, contact Avigilon Sales.

[2] The 10 GbE network connection requires the HD-NVR4X-SFPPLUS-SR transceiver accessory.

[3] Requires ACC Enterprise license and Avigilon H3A, H4A, or H5A analytic enabled cameras. The Avigilon Appearance Search camera support limit does not affect any NVR throughputs for simultaneous recording, playback and live streaming.

[4] Cameras enabled for facial recognition must also be enabled for Appearance Search and will reduce the number of cameras available for Appearance Search. For more information, see the ACC 7 Hardware Sizing Guidelines for Avigilon Appearance Search Technology and Facial Recognition.

Part number varies based on total storage capacity **C**.

# AI NVR

The Artificial Intelligence (AI) Network Video Recorder (NVR) is a purpose-built security-hardened NVR, with built-in server-side analytics that unlocks Avigilon's advanced AI capabilities on any connected video stream. All models come with high-performance recording technology and a 5-year Next Business Day (NBD) with onsite parts delivery warranty.

## SPECIFICATIONS

| MODEL NAME | | AI NVR VALUE | | | AI NVR STANDARD | | |
|---|---|---|---|---|---|---|---|
| PART NUMBER | | AINVR-VAL-**C**TB | | | AINVR-STD-**C**TB | | |
| Storage (TB) | Total Capacity **C** | **6** | **12** | **24** | **32** | **48** | |
| OS Volume | Configuration | | | 2 x M.2 SSD, RAID1 | | | |
| | Redundancy | RAID 5 - 4 x 3.5", hot-swappable | | RAID 6 - Up to 8 x 3.5", hot swappable | | | |
| Network Interface | | 2x1 GbE RJ-45 ports (1000Base-T) | | 4x1 GbE RJ-45 ports (1000Base-T) | | | |
| Network Video Streaming Performance | Recording Rate (1GbE) | | | Up to 900 Mbps | | | |
| | Playback Rate | | | Up to 800 Mbps | | | |
| Form Factor | | 1U rack mount | | 2U rack mount | | | |
| Redundant Power Supply | | | | Optional | | | |

## CAMERA & ANALYTICS SUPPORT

| MODEL | ANALYTICS KIT | AVIGILON ANALYTICS CAMERAS[1] | | NON-ANALYTIC CAMERAS[1] | | |
|---|---|---|---|---|---|---|
| | | APPEARANCE SEARCH ONLY[2] OR FACIAL RECOGNITION + APPEARANCE SEARCH[2] | | CLASSIFIED OBJECT DETECTION ONLY[3] OR CLASSIFIED OBJECT DETECTION + APPEARANCE SEARCH[2] OR CLASSIFIED OBJECT DETECTION + APPEARANCE SEARCH[2] + FACIAL RECOGNITION | | |
| AI NVR Standard + Performance Kit | AINVR-STD-PRK | 200 | 100 | 25 | 25 | 23 |
| AI NVR Standard | Built-In | 200 | 100 | 12 | 12 | 11 |
| AI NVR Value | Built-In | 200 | 50 | 6 | 6 | 5 |

## KEY FEATURES

- Object Detection
- Avigilon Appearance Search Technology
- Facial Recognition Technology
- No Face Mask Detection & Occupancy Counting

## LEARN MORE

[1] These performance figures are based on validation testing by Avigilon, using Avigilon Control Center™ software version 7.6.4. Assumes appliance-wide average per camera rates of classified objects leaving the field of view:
- H5A cameras: one every second
- H4A cameras: one every two seconds
- Non-analytics cameras running Classified Object Detection: one every second

Additional licenses may be required. For more information, contact Avigilon Sales.

[2] Requires H5A, H4A, or Classified Object Detection running on non-analytic cameras.

[3] For cameras at 2 MP and 30 images per second (ips).

Part number varies based on total storage capacity **C**.

# HD VIDEO APPLIANCES

All-in-one solutions designed to reduce the cost and complexity of video security by simplifying deployment and maintenance.

## SPECIFICATIONS

| MODEL NAME | | HD VIDEO APPLIANCE | | | HD VIDEO APPLIANCE PRO | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **PART NUMBER** | | VMA-AS3-8P C | | | VMA-AS3-16P C | | VMA-AS3-24P C | | |
| Storage (TB) | Total Capacity C | ② | ④ | ⑧ | ⑥ | ⑨ | ⑫ | ⑫ | ⑱ | ㉔ |
| | Configuration | 1 x 3.5" HDD | | | 4 x 3.5" HDD | | | | |
| | Redundancy | None | | | RAID 5 | | | | |
| OS Drive | | 1 x SSD | | | | | | | |
| Max. Recording Rate | | Up to 100 Mbps | | | Up to 300 Mbps | | | | |
| Local Monitor Output Support | | 2 HDMI Ports | | | | | | | |
| Embedded Network Switch | | 8 ports | | | 16 ports | | 24 ports | | |
| Avigilon Appearance Search & Face Recognition Technology | Requirements | ACC Enterprise license and Optional Analytics Kit | | | | | | | |
| | Number of Avigilon Analytics-Enabled Cameras | 50 Avigilon Appearance Search or 35 Avigilon Appearance Search + 15 Face Recognition[1] | | | | | | | |

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|---|

[1] Cameras with face recognition support also include Avigilon Appearance Search functionality.

Part number varies based on total storage capacity C.

# ES APPLIANCE

Designed to keep video analytics and storage at the edge of the network to help lower bandwidth requirements for monitoring remote sites and decrease your system's total cost of ownership.

## SPECIFICATIONS

| MODEL NAME | ES 8-PORT APPLIANCE | |
|---|---|---|
| **PART NUMBER** | VMA-ENVR1-8P C A | |
| Storage Capacity (TB) C | ④ | ⑧ |
| Max. Recording Rate | 130 Mbps | |
| Appliance Analytics Support | Yes[1] | |
| Form Factor | Small form factor, optional rack mount | |
| Embedded Network PoE Switch | 8 ports | |

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|---|

[1] Requires ACC7-VAC optional licenses.

Part number varies based on total storage capacity C.

# ACC ES RUGGED APPLIANCE

A 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.

## SPECIFICATIONS

| MODEL NAME | ACC ES RUGGED 8-PORT APPLIANCE | |
|---|---|---|
| PART NUMBER | VMA-RPA-RGD-8P2 | VMA-RPA-RGD-8P4 |
| Storage Capacity (TB) | 2 | 4 |
| Max. Recording Rate | 130 Mbps | |
| Analytics Support | Yes[1] | |
| Form Factor | Ruggedized case with DIN rail mount option included | |
| Embedded Network PoE Switch | 8 ports | |
| Warranty | 5 year warranty | |

[1] Analytics features are included by default with the addition of ACC camera licenses.

## KEY FEATURES

- Video Analytics
- Low Voltage Operation
- Remote Notifications
- Isolated Digital I/O
- Embedded Video Management Software
- Solid-State Drive
- Shock & Vibration Tolerant
- High Temperature Range

## LEARN MORE

# AVIGILON VIDEO ARCHIVE

Cost-effective storage option that provides a path for expanding video archives incrementally over time, delivering exceptional reliability with near-zero downtime.

## SPECIFICATIONS

| MODEL NAME | AVIGILON VIDEO ARCHIVE | | | | | |
|---|---|---|---|---|---|---|
| PART NUMBER | AVA-HED1- C TB[1] | | | AVA-EXP1- C TB[1] | | |
| Storage Capacity (TB) C | 225 | 488 | 751 | 263 | 526 | 789 |
| Form Factor | 5U | | | | | |
| Max. Number of NVRs Connected | 4 per Head Unit when attached directly; 12 per Head Unit when using 2 network switches[2] | | | | | |
| Redundancy | Erasure coding | | | | | |
| Connectivity | iSCSI | | | | | |

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[1] Head units house the controllers that connect either directly with up to 4 NVRs or indirectly with up to 12 NVRs using 2 network switches. Expansion units need to be installed in the same rack and connected to Head Units to expand the capacity up to 1.5PB.

[2] 12 NVRs must be connected through 2x 10GbE SFP+ network switches to ensure redundancy. The switches are not sold by Avigilon and should be sourced by the customer. Each switch must support at least 12x Downlink ports (1 per NVR) and 4x Uplink ports.

Part number varies based on total storage capacity C.

# REMOTE MONITORING WORKSTATIONS

An easy way to add high-resolution monitoring stations to existing systems.
Select either a two- or four-monitor workstation, pre-loaded with ACC software.

## SPECIFICATIONS

| MODEL NAME | 2-MONITOR | 4-MONITOR |
|---|---|---|
| PART NUMBER | RM5-WKS-2MN | RM5-WKS-4MN |
| Max. Resolution | 8 MP (4K) | |
| Number of Supported Streams | 72 | 144 |
| Form Factor | Small Form Factor | |
| Number of Supported Displays | 2 x mDP/DP/HMDI | 4 x mDP/DP/HMDI |
| Storage for Exports | 500 GB | |

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# AVIGILON AI APPLIANCE

Enhance the security of your site by incorporating Avigilon Next-Generation
Video Analytics on third-party and Avigilon's non-analytic cameras.

## SPECIFICATIONS

| MODEL NAME | AI APPLIANCE 2 | |
|---|---|---|
| PART NUMBER | VMA-AIA2-CG1 | VMA-AIA2-CG2 |
| Max. Number of Channels | 25 | 50 |
| Number of Channels Included | 10 | 30 |
| Form Factor | 2U rack mount | |
| Local Monitor Output Support | No | |
| Embedded Network Switch | No | |

## CAMERA & ANALYTICS SUPPORT

| MODEL | NON-ANALYTIC CAMERAS[1] | | | | |
|---|---|---|---|---|---|
| | CLASSIFIED OBJECT DETECTION ONLY[3] | OR | CLASSIFIED OBJECT DETECTION + APPEARANCE SEARCH[2] | OR | CLASSIFIED OBJECT DETECTION + APPEARANCE SEARCH[2] + FACIAL RECOGNITION |
| AI Appliance 2 CG2 | 50 | | 50 | | 43 |
| AI Appliance 2 CG1 | 25 | | 25 | | 22 |

## LEARN MORE

[1] These performance figures are based on validation testing by Avigilon, using Avigilon Control Center™ software version 7.6.4. Assumes appliance-wide average per camera rates of classified objects leaving the field of view:
- H5A cameras: one every second
- H4A cameras: one every two seconds
- Non-analytics cameras running Classified Object Detection: one every second

Additional licenses may be required. For more information, contact Avigilon Sales.

[3] For cameras at 2 MP and 30 images per second (ips).

# IP HORN SPEAKER

The IP Horn speaker provides bidirectional audio and integrates with Avigilon Control Center (ACC) video management software, equipping operators with superior situational awareness to address trespassing or deter intruders.

## SPECIFICATIONS

| MODEL NAME | ACC ES RUGGED 8-PORT APPLIANCE |
|---|---|
| PART NUMBER | ACC-SPEAKER |
| Power Source | PoE/PoE+ |
| Power Consumption | 13 W (Using PoE), 22 W (Using PoE+) |
| Microphone | Electret condenser microphone |
| Amplifier Rated Output | 8 W (Using PoE), 15 W (Using PoE+) |
| Sensitivity | 121 dB (15 W, 1 ml (500 Hz - 2.5 kHz, peak level) 109 dB (8 W, 1 ml (500 Hz - 2.5 kHz, peak level) 110 dB (15 W, 1 ml (100 Hz - 10 kHz, pink noise) 107 dB (8 W, 1 ml (100 Hz - 10 kHz, pink noise) |
| Frequency Response | 315 Hz - 12.5 kHz |
| Sampling Frequency | 8 - 48 kHz |
| Audio Compression Method | G.711u/a, G.722, L16 (8 - 48kHz) |
| Environmental | IP66 |
| Warranty | 5-year warranty |

## KEY FEATURES

ACC Integration

Built-In Microphone

Water & Dust Protection

Wide Temperature Range

## LEARN MORE

# ENTERPRISE-GRADE PRIVATE BROADBAND

Nitro by Motorola Solutions is the first fully-managed Citizens Broadband Radio Service (CBRS) platform that combines private broadband data with business-critical voice, delivering enterprise-grade private LTE that is easy-to-deploy and outperforms Wi-Fi. Nitro's integration with Avigilon video security cameras provides large, remote or dense sites with greater video coverage, reliable performance, and robust data security and privacy.*

# NITRO

Designed to be deployed like a Wi-Fi network, Citizens Broadband Radio Service Devices (CBSDs) are mounted in desired locations and connected to other network gear typically racked in a central location. Avigilon camera connectivity into a Nitro network requires a fixed, third-party OnGo device containing a Nitro SIM card to gain network access and bridge the camera's ethernet communication capability with the network's CBRS wireless protocol.

## SYSTEM COMPONENTS

| DEVICE IMAGE | DEVICE NAME | DEVICE TYPE | PART NUMBER | DESCRIPTION |
|---|---|---|---|---|
| | SLX 2000 | CBSD (Access Point) | AAE20048ENA1AN | Indoor CBSD 3550-3700M 250mW. Includes: CBSD with 64 active stream support, wall/ceiling mount hardware, integrated 8dBi antenna, copper ethernet or fiber backhaul, POE++ or 12V DC input, integrated GPS receiver, PTP license. |
| | SLX 4000 | CBSD (Access Point) | AAE40048ENB2AN | Outdoor CBSD 3550-3700M 316mW. Includes: CBSD with 64 active stream support, pole/wall mount hardware (including adapter bands), copper ethernet backhaul, DC -40 to -57V, 10m DC power cable, GPS antenna for direct mount. |
| | SLN 1000 | Two-Way Radio | HK2120A | Purpose-built CBRS radio, delivering highly reliable broadband push-to-talk. Featuring a built-in Wi-Fi hotspot, the SLN 1000 helps you get the most out of legacy radio equipment, while taking advantage of CBRS mobility and security. |
| | JUNIPER SRX 345 FIREWALL | Firewall/Router (two (2) required) | T8577A | All Nitro networks require a minimum of one (1) SRX 345 for connectivity to the Nitro Cloud Core. Connection will be through the customer-provided Internet connection. Redundant links and/or redundant configurations are supported, additional switching not included. |
| | HPE ProLiant DL20 Gen10 Server | OnPrem Edge Gateway | SQM01SUM0319A | Includes: Nitro On-Prem Edge Gateway hardware (HP DL 20 appliance), NA AC power cord, and software. If redundancy or expansion is required, order a quantity of two. |
| | uFalconSTG PTP Bundle | PTP Timing Source | DSBNDLMSI2 | Includes: uFalconSTG PTP, AC/DC Power Adapter, and a rack mounting shelf. All Nitro CBSDs require a timing source, either PTP or GPS. The uFalconSTG PTP provides PTP timing for up to 32 CBSDs, AC/DC power adapter and the rack mounting shelf items detailed below. |
| N/A | Expansion uFalconSTG PTP with AC/DC adapter | PTP Bundle | DSBNDLMSI21 | Includes: PTP server with the AC/DC power adapter and is appropriate when a second co-located PTP server is required (i.e. expansion or redundancy). |
| N/A | EDGE TIMING MASTER | PTP Accessories | DSMFALCONST8SEGHOC | This is an expansion uFalconSTG PTP server that can be purchased to have redundancy in a network, if a network is being expanded beyond 32 CBSDs or if a spare PTP server is desired. The DSBNDLMSI2 bundle already includes a uFalconSTG PTP server. |

**LEARN MORE**

*Nitro parts are sold by Motorola Solutions. To resell Nitro, an Avigilon Partner must apply to become a Motorola Solutions Partner: partnerapply.motorolasolutions.com
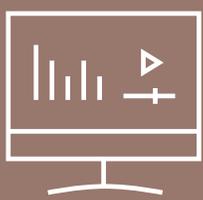
# VIDEO MANAGEMENT SOFTWARE

Whether you're monitoring video from fixed cameras or your suite of body-worn cameras, our video management solutions provide the control and AI-enabled tools to help ensure critical events do not go unnoticed.

# ACC 7 SOFTWARE

Powerful software doesn't have to be complicated. ACC software leverages AI technology to give you control over your video security and focus your attention on what matters most. Use it with Avigilon cameras and sensors and/or leverage existing assets by using it with third-party devices.

## SPECIFICATIONS

| MODEL NAME | CORE | STANDARD | ENTERPRISE |
|---|---|---|---|
| Cameras/Server | 24 | 75 | >300[1] |
| Servers/Site | 1 | 1 | >100[1] |
| Client Connections per Server | 2 | 10 | Unlimited |
| Rule Triggers | 0 | 51 | Unlimited |
| Avigilon Presence Detector™ Event Trigger | No | Yes | |
| Self-Learning Video Analytics Event Configuration | No | Yes | |
| ACM™ Identity Verification | No | Yes | |
| ACM Identity Search | No | Yes | |
| ACM Remote Door Access Grants | No | Yes | |
| Focus of Attention Interface | No | | Yes |
| AI Appliance Support | No | | Yes |
| AI NVR Support | Yes | | |
| Avigilon Pro Camera Support | No | | Yes |
| Alarm Search | No | | Yes |
| Alarm Notifications and Escalations | No | | Yes |
| Avigilon Appearance Search Technology | No | | Yes |
| Facial Recognition Support | No | | Yes |
| No Face Mask Detection | No | | Yes |
| License Plate Recognition and Event Search | No | | Yes |
| Multi-Camera Privacy-Blurred Export from Avigilon Appearance Search Results | No | | Yes |
| Failover Connections and Redundant Recording | No | | Yes |
| Active Directory Integration | No | | Yes |

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[1] Avigilon has tested up to the number indicated, however no limits are imposed by licensing. Actual limits will depend on the hardware environment. ONVIF is a trademark of ONVIF, Inc.

# ACC 7 SOFTWARE

## STANDARD FEATURES

- Automatic device discovery
- Support for third-party ONVIF compliant cameras and encoders including dual streaming
- Support for H.265, H2.654, MPEG4, MJPEG and JPEG2000 codecs
- HDSM™ and HDSM SmartCodec™ technology support
- ACC Mobile application
- Video analytics overlays
- Light and dark user interface themes
- Unusual Motion and Activity Detection timeline filtering with Skip Play

- Intelligent Motion, thumbnail and event search
- Two-factor authentication and emergency privilege override
- Two-person authenticated recorded video viewing
- Avigilon Cloud Services web client
- FIPS 140-2 encryption
- Occupancy Counting analytics
- Social Distancing analytics
- Multi-camera export
- System & motion event email notifications

## LEARN MORE

# AVIGILON CLOUD SERVICES

The Avigilon Cloud Services (ACS) platform connects your ACC sites to the cloud and enables secure access to your system from anywhere using an internet browser. Operators can review live and recorded video as well as monitor the health of all cloud-connected ACC sites, including critical components such as cameras and servers.

## SPECIFICATIONS

| | | |
|---|---|---|
| Centralized Access | Anywhere Access | Organizations with distributed locations can easily access their ACC sites securely from anywhere on a browser or mobile device. |
| | Easy Remote Access | Remotely monitor multiple locations and cameras to quickly detect, verify and act on events. |
| | Cloud Connectivity to ACC Sites | Connect ACC sites to the cloud to converge media access, system management, and integrations. |
| | Tools for everyday operation | Access live and recorded video, create and view bookmarks, manage PTZ controls, and export videos to a local drive. |
| | Enhanced Situational Awareness | Provides timely and proactive responses to analytic alarms, sent from ACC software as push notifications directly to the ACC Mobile 3 app. |
| Security | Firewall Traversal | Firewall traversal enables secure remote access with minimal or no firewall reconfiguration. |
| | Federated Authentication | Centralize administration of user identities and use corporate credentials to access ACC, ACM and ACS software. |
| | Seamless User Provisioning | Provisioning users is simple, as existing ACC group privileges are inherited for web client or mobile app viewing. |
| System Health Monitoring | Real-time Awareness | Confirm the operational status of your deployment to prioritize site maintenance activities and optimize uptime across all system components. |
| | Health Dashboard | Review a single health dashboard that rolls up the active status of all recorders and connected cameras. |
| | Remote Configuration Access | Access configuration details of recorders and cameras across all cloud-connected ACC sites. |
| | Remote Site Upgrades | Push software upgrades remotely to one or more ACC sites simultaneously, ensuring all of your sites are always on the latest versions of ACC. |
| Technical Specifications | Compatible ACC Platform | ACC 7.10 or later is required to connect ACC sites to Avigilon Cloud Services. |
| | Compatible ACC Mobile Platform | ACC Mobile 3 App is required to support remote access via a mobile device and to receive analytic alarms from ACC. |

## KEY FEATURES

The ACS platform enables a modern cloud-connected user experience, accessible without installation 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.

Our platform provides for the delivery of value-add services, helping to improve your up-time, and enhance productivity, while also strengthening your security. The ACS platform simplifies the management of physical security systems for customers with multi-site facilities and distributed security systems from anywhere.

AVIGILON CLOUD SERVICES PLATFORM

ACC MOBILE 3 APP

REGISTRATION

CAMERAS

WEB CLIENT

ACC SITE
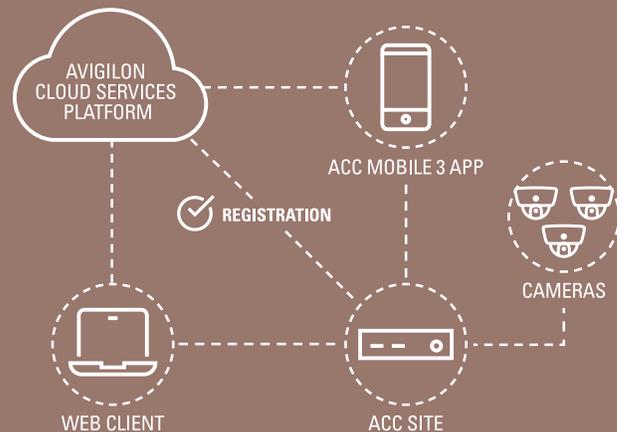
## LEARN MORE

For more information, visit **motorolasolutions.com/en_us/video-security-access-control.html**

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