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Alta Video

Actionable intelligence made easy



Agile, scalable and easy to use, Alta Video is a cloud-based VMS with machine learning capabilities. It analyzes real-time video from Avigilon Alta and third-party cameras, sending instant alerts on unusual activity to keep your team informed.

Features

Access anywhere



A cloud-native AI video management system offers an open, scalable platform that alerts you to critical events across cameras and locations, securely managed via browser or mobile app.

Stay informed with smart alerts



Equipped with a powerful rules engine to help keep your security teams informed. Quickly set up rules to receive real-time alerts with thumbnails, time and location data.

Review events with precision



Use the timeline to quickly find specific events in Alta Video's AI-powered video view that highlights people, vehicles and overall motion separately and in different colors.



Gain real-time location insights

Improve situational awareness with real-time insight into people and vehicle activity and counts across your locations, visualized on maps and floor plans to easily see what's happening.

See what matters



Spotlight uses deep learning to surface relevant video feeds and help keep operators informed of potential events. Real-time alerts on the video walls make it a snap to get the full picture.

Conduct fast investigations



Comb through countless hours of video quickly using appearance and image detection – all powered by machine learning. Easily search across multiple cameras and days with a single click.

To learn more, visit avigilon.com/vms/cloud



System features

System features	
System	• Up to 10,000 camera sources per deployment • Up to 50 Cloud Connectors per deployment • Up to 200 camera sources per Cloud Connector (model dependent)
Device support	• Avigilon Alta cameras • Automatic device discovery • Third-party IP cameras & encoders • H.264 video compression
Streaming	• Dynamic stream selection, RTSP, RTSPS, HLS, WebRTC
Security & privacy protection	• HTTPS camera connectivity • SRTP support • AES video encryption • Digital watermarking against tampering • RTSP over TLS • No default passwords • Mandatory access authentication
Alerting and notifications	• Real-time notifications • Email event notifications • Webhooks • Rules tool
Pervasive video analytics	• Unusual event detection • People counting • Vehicle counting • Forensic investigation • Intrusion detection • Real-time notifications and alerts • Audio analytics • Spotlight
Search	• Search by similarity • Search by physical characteristics • Search by event • Search by image • Search across all video • Face Search (based on location) • Playback timeline with embedded thumbnails • Smart Presence - use the map to understand the movement of people or objects in your protected spaces
Client	• Intuitive and powerful interface • HTML5 Alta Video web app and Alta Video mobile apps (Android and iOS) • Saved views • Interactive maps • Multi-camera export



Analytics specifications

Detected attributes	
Object Attributes	Any object (Vehicle and person)
	Vehicle Sub-types: • Small/Medium Vehicles (sedan, SUV, pickup truck, etc.) • Large Vehicles (bus, truck) • Two-wheeled Vehicles (bicycle, motorcycle) • Unclassified Vehicles Vehicle color: • Only this color • Ignore this color License plate ¹ : • Any plate • Exact match • Matches group • Starts with • Ends with • Includes • Exclude <groups>
	Person: • Fall detection (Search only) • Accessories: • With/Without bag • Clothing color: • Only this color • Ignore this color • Upper body clothing color • Lower body clothing color Face ² : • All faces • Select watchlists

¹ Requires additional license.

² Requires additional license. Check national and local legislation for guidance on the use of face search and face watchlists.



Supported audio events

Audio Events³

- Glass breaking
- Loud noise
- Gun shot
- Screaming
- Smoke alarm
- Car alarm
- Ultrasound panic alarm
- Dog bark
- Tire screeching

³ Requires compatible cameras or microphones.

Supported analytic rules

Access Control⁴

When integrated with suitable access control systems, create rules for access events.

Anomaly

Rule triggered on detected anomalies based on:

- Unusual time of day
- Unusual location
- Unusual velocity

Appearance

Any object

Vehicle:

- Type
- Color
- License plate⁵:
 - Any plate
 - Exact match
 - Matches groups
 - Starts with
 - Ends with
 - Includes
- Use an image

Person:

- Accessories: With/without Bag
- Clothing color
- Use an image

Face⁶:

- All faces
- Select watchlists

Counts

Rule triggered when the count of objects of the selected type either exceeds or is less than the selected threshold.

Line crossing

Crossing a virtual line set up for:



Supported analytic rules

	Vehicle: • Type • Color • License plate: • Any plate • Exact match • Matches groups • Starts with • Ends with • Includes • Use an image Person: • Accessories: With/without Bag • Clothing color • Use an image Face: • All faces • Select watchlists
Loitering	Rule triggered when an object of the selected type and attributes loiters in the selected area for the selected period of time.
Point-of-sale ⁷	Search/rule set up based on text field and price.
Sensor ⁸	All sensors Alta Video: • Humidity • Temperature Disruptive Technologies: • Carbon dioxide (CO2eq) health index • Desk occupancy • Door/window • Humidity • Motion • Pressure • Proximity • Temperature • Touch • Water detector IPVideo - Halo Sensor • Aggression • Air quality (AQI) • Ammonia • Cannabis (THC) • Carbon dioxide (CO2eq) • Carbon dioxide CAL



Supported analytic rules

- Carbon monoxide (CO)
- Carbon monoxide air quality
- Distress
- Gunshot
- Health index
- Humidity
- Humidity health index
- Light lux level
- Masking
- Microphone high gain
- Microphone low gain
- Motion
- Nitrogen dioxide (NO2)
- Nitrogen dioxide air quality
- Nitrogen dioxide health index
- Noise
- Numeric
- On/Off
- Open/Closed
- Particular matter 1
- Particulate matter (PM2.5)
- Particulate matter 1 health index
- Particulate matter 10 air quality
- Particulate matter 2.5 health index
- Particulate matter 25 air quality
- People count
- PM10 health index
- Pressure
- Tampering
- Temperature
- Vape/smoke
- Volatile organic compounds (TVOC)
- Volatile organic compounds health index
- X orientation
- Y orientation
- Z orientation

Generic:

- Humidity
- Motion
- Numeric
- On/Off
- Open/Closed
- Proximity
- Temperature
- Touch
- Water detector

Sound

Rule triggered when sounds of specified types is detected.



Supported analytic rules

System

Camera issues:

- Any camera
 - Camera connection failure (timeout after minutes)
 - Unmet retention period (days)
- Alta camera
 - SD card failure
 - Analytics failure
 - Camera top cover removed
 - Camera in recovery mode
 - Camera not storing
 - Image health

System issues:

- Internal appliance issues:
 - Cloud Connector connection issues
 - Software issues
 - Disk failures
 - Disk missing
 - Disk space
 - Audi log storage limit (%)
- External connection issues:
 - Cloud connection
 - Access control connection

⁴ License not required for Alta Access integration

⁵ Requires additional license.

⁶ Requires additional license. Check national and local legislation for guidance on the use of face search and face watchlists.

^{7, 8} Requires additional license and integration.



Ordering Information

Alta Video

Product Name	PID	Product Description
Alta Video	AWA-CLD-1Y	1-year subscription per camera to Alta Video. Real-time video analytics.
Alta Video	AWA-CLD-3Y	3-year subscription per camera to Alta Video. Real-time video analytics.
Alta Video	AWA-CLD-5Y	5-year subscription per camera to Alta Video. Real-time video analytics.
Alta Video	AWA-CLD-10Y	10-year subscription per camera to Alta Video. Real-time video analytics.



Support

For product support, visit: avigilon.com/support or to contact Sales, email sales@avigilon.com.

To learn more, visit: avigilon.com/vms/cloud, or to read the customer documentation, see docs.avigilon.com/bundle/alta-video/page/Products/aware/aware.htm.

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