

An aerial photograph of a lush green park. In the center is a large, oval-shaped flower bed filled with red and white flowers. Numerous people are scattered across the grass, some sitting on the ground, others walking. There are several trees, including a large one on the left and a smaller one on the right. A paved path winds through the park. In the bottom left corner, there is a small, curved concrete structure, possibly a fountain or a play area. The overall scene is a vibrant, active public space.

AVA


a Motorola Solutions Company


Industry solution for municipalities


**Maximize public safety
and modernize your city
for tomorrow**


Security of public spaces needs to be proactive and connected. Outdated camera solutions leave holes for theft, vandalism, and threats to public safety. With pioneering cloud video security, your city can automate security to protect citizens and visitors. Ava Cameras and the Ava Aware Cloud platform provide valuable insight to keep citizens safe and revive community interactions.


Why Ava


- 


Detect threats and anomalies in real-time with AI-powered security
- 


Analytics in real time are accessible from anywhere, in a single view
- 


Integrate with existing tools and systems to extend functionality
- 

Optimize city operations with quantifiable people and environmental data
- 

Custom rules for every use case
- 

Onboard and cloud storage to protect sensitive information and footage
- 

Find security events faster than ever with machine learning search capabilities
- 

Stay protected from cyberattacks through the cloud with automatic updates
- 

Deploy within minutes using cloud-based provisioning

An open data platform at your fingertips



Ava Compact Dome
Ava Dome / Ava 360 / Ava Bullet
Ava Quad / Ava Flex



Ava Aware platform



Ava Cloud Connectors

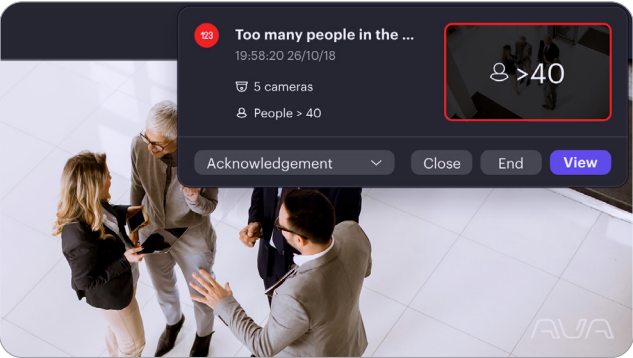
Ava Cloud Video Security

The Ava Aware Cloud platform is malleable to your city’s needs. You don’t need to rehaul your cameras completely—Ava works with what you have. Pull data and insights from your existing security camera infrastructure, so you get value on day one. It’s an easy on-ramp to the cloud as you transition from on-premise hardware to cloud storage and management. If you need to upgrade your existing cameras, Ava has a suite of Red Dot award-winning security cameras that can address any need you have: Domes and Compact Domes for outdoor and indoor deployments, 360° cameras for a complete perspective of your environment, the Bullet cameras for honing in on areas or tracking license plates, and the Quad cameras for exceptional coverage.

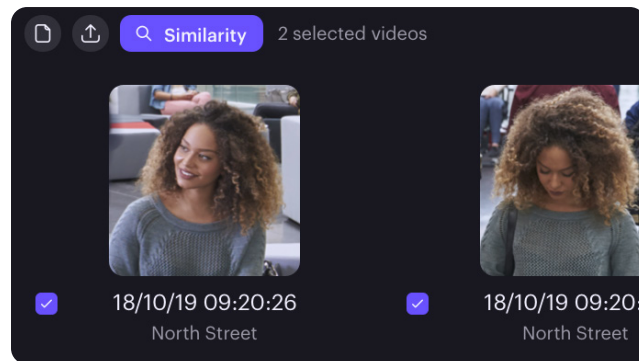
Cities must think about coordinating various deployment scenarios, from municipal buildings to plazas, parks, and more. Connecting all locations in one cloud-managed platform saves time, money, and promotes a safer public environment.



Map view with Smart Presence™
Add maps of all your locations and configure them to include camera views, alarm views, and track motion across public spaces.

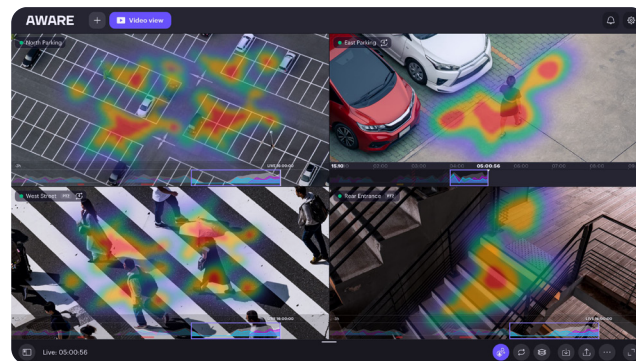


Occupancy counting
Monitor parks, plazas, and festivals in real time to keep tabs on the current occupancy of people and vehicles in a given location. Oversee areas where people are congregating.



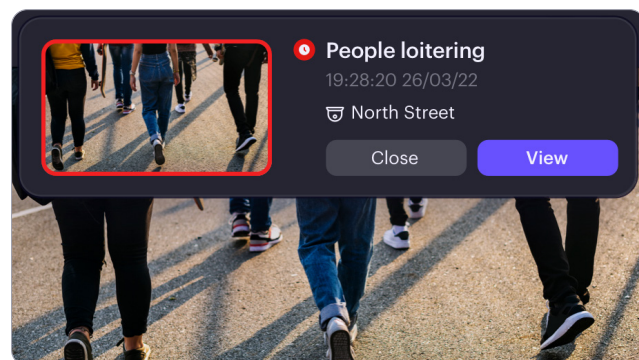
Smart search

Search by event (when something enters the camera's field of view) or by similarity. Machine learning gets better and better at identifying people, vehicles, and events across multiple camera views.



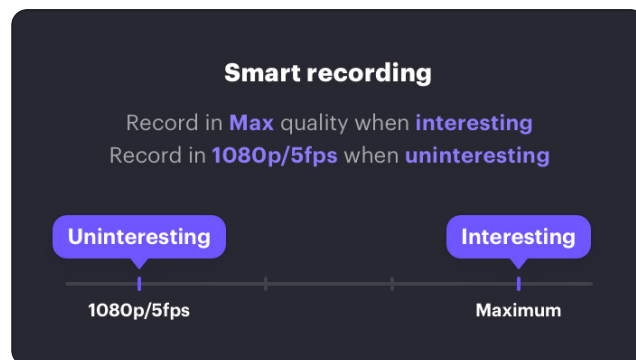
Motion heatmaps

Excellent for identifying trends in movement, heatmaps can provide data that helps you optimize public venue layouts, identify points of congestion, or find issues with transportation flows.



Anomaly detection

Your city policies and deployments can set custom rule-based templates, so you get alerted when specific events occur, like loitering, vandalism, or after-hours movement. Notifications can be integrated with existing systems and email.



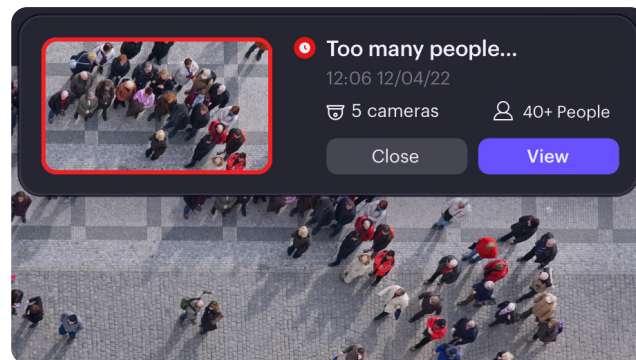
Smart Recording

Ava Cameras automatically switch between low-resolution recording (when nothing is in frame) to maximum-resolution recording (when an event or object is detected).



Sound detection

Ava Cameras can differentiate between key sounds like gunshots, glass breaking, yelling, alarms, and more. Select cameras can also detect the direction of noises.



Integrations for smart towns and cities

Ava seamlessly integrates with third-party systems like those for access control, ventilation, environmental sensors, occupancy, user management, email communication, and existing security cameras to leverage its analytics and create valuable insights.



100% NDAA-889 compliant

Ava's video security hardware adheres to the US Federal Government IT procurements guidelines and is 100% NDAA Section 889 compliant.



ISO 27001 certified

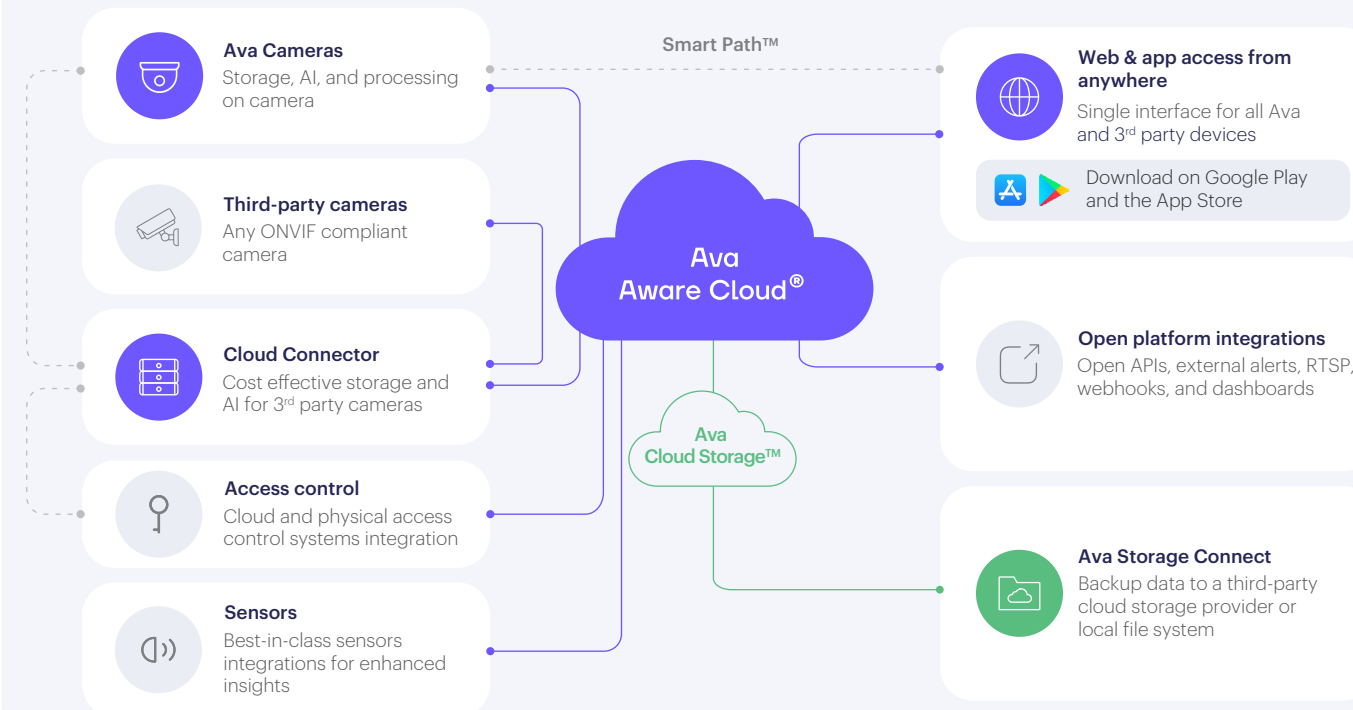
Ava's design, development, sales, implementation, and software support for cyber and video security, including cloud-hosted services with associated support services, including operational delivery, are ISO 27001 certified.



We are now more secure but use less time on security. It is now possible for our team to focus more on our other important tasks because we are confident that Ava Aware will give us reliable results.

– Michael Taoushanis, Smart Building Manager, Stavanger Municipality

The solution – Simple, open, and scalable video security



Use cases and public safety scenarios



In parks and plazas

Gain insight and visibility to large public spaces and aggregate data to improve infrastructure. Get automatic alerts if someone is in a closed space after hours, or set up custom rules if vandalism is a recurring problem. Many thefts and assaults occur in parks and plazas at night and outside the range of cameras. Wide-view or 360° cameras with strong night-vision capabilities provide a safe environment 24/7. The footage is easily downloaded and shared with authorities, and evidence is found in minutes with Smart Search.



In office buildings and city halls

Deter vandalism and loitering around public buildings. Use data from cameras to see occupancy trends in town halls, libraries, and courthouses. One cloud camera solution integrated across all municipal properties means unified security (such as identifying suspects over many camera views in many locations). Custom permissions settings give access to designated users as needed.



In police stations

Snippets of footage or flagged events can be quickly downloaded and shared with authorities. Use descriptions of perpetrators (such as “the color of the shirt”) to search across all locations and set timeframes to find relevant camera events. Respond to real-time events with automatic alerting, so you don’t have to watch camera feeds all day.



Downtown

Fisheye or wide-angle cameras can survey a large plaza or open space. A powerful crime deterrent, it can work to protect against illegal activity without needing to install tens of cameras in one area. Video feeds still provide the same analytic capabilities and heat map detection. Ava cameras can use audio analysis to detect certain noises, like glass breaking or gunshots, with custom alerts for each sound.



During events and festivals

Quickly deploy and provision cameras for temporary events to extend or maximize security. Ensure public safety in more crowded areas, and be alerted if occupancy suddenly increases (like during a riot or protest).

Smart city facts

What is a smart city?

While there is no formal definition at this point, most experts agree smart cities leverage edge technology and machine learning to provide more automaticity to municipal governments. According to Malabika Mandal, Visionary Innovation Group Industry Analyst at Frost & Sullivan: “Smart cities will focus on data-driven and connected infrastructure, which will lead to higher adoption of technologies like AI and 5G. They will prioritize more digitized services and a strong data analytics infrastructure, leading to increased spending toward technology.” ¹

By 2025, there are predicted to be 26 smart cities globally, with 9 of those being in the United States.

What’s the rush?

Over 44% of global ransomware attacks in 2020 target municipalities. Keeping outdated technology and security systems in place continues to put cities and public spaces at great risk for future attacks. ²

Crime rates are increasing as well, with homicides spiking 44% from 2019 to 2021³. Increasing the number of cameras is not the answer if those cameras aren’t deterring crime or finding perpetrators is delayed days to weeks. Ava cameras detect crimes in progress and real-time alerting equates to a faster response time and stopping many crimes before they start or escalate.



¹ <https://cities-today.com/analysts-predict-26-smart-cities-by-2025-from-zero-today/>

² <https://www.barracuda.com/news/article/832#.YpjuLZPMITU>

³ <https://counciloncj.org/2021-year-end-crime-report/>



Ava Security is a Motorola Solutions company with a vision to help organizations monitor, understand, and act on threats in real time.

We offer cloud-native and intelligent, end-to-end video security solutions to protect people, assets, and data. Security professionals leverage embedded machine learning to help recognize and investigate patterns, accurately see the whole threat picture, and respond quickly.

To learn more about Ava's intelligent solutions and how you can enjoy proactive security, visit our website or schedule a demo with a member of our sales team at **sales@avasecurity.com**.

www.avasecurity.com