



Keeping Communities Safe with Al

Agenda: Introduction Overview Integration Benefits Technical Overview Verticals & Use Cases Q&A

Meet Today's Speakers



Brian Denmeade

Field Application Engineer Ganz CORTROL, CBC

I have a passion for helping secure the world through educating others about the latest physical and digital security systems.



Dan Kopchik

Vice President, Sales Actuate

I have two kids in elementary school, and am passionate about making communities safer through advancing use of new technologies with positive social impact.



Eli Katz

Director of Customer Success Actuate

I build strong technical pre- and post-sales relationships with customers, assisting Security teams and removing barriers to adopting AI in their organizations.

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Complimentary Design



- 1. Today, security operators monitor and process both qualified and unqualified events.
- 2. Using Actuate's AI in conjunction with the Ganz CORTROL VMS helps surface qualified events to the attention of security operators.
- 3. This allows security operators to make better-informed decisions that free them up to do what they do best, verifying and taking swift action on critical events.



Efficiency and Accuracy

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- Traditionally, analytics offers a description of what is occurring in a video scene.
- 2. Without AI, analytic detection may send a false alarm every time an animal crosses the perimeter.
- 3. With AI, analytic detection can identify the animal as not classified as a person and confirm no requirement for an alert.
- 4. Actuate's AI offers CORTROL VMS the power to identify, classify, and confirm whether an in-scene object should or should not trigger a required alert.



- Customers are interested in solutions ranging from gun detection, intrusion, loitering, crowd detection, slip & fall, hard hat safety, and vehicle gate automation.
- 2. Facial detection, gun detection, intrusion, and loitering systems can address security concerns, and alert employees of known shoplifters or other potential threats.
- 3. Al-enabled video analytics can monitor for slip & fall, a monetary impact that can range from minor inconvenience to massive liability.
- 4. The CORTROL VMS integration with Actuate makes it easier to use and more economical to deploy such solutions.



Overview

Actuate's Founding Story and Mission





Sonny Tai Chief Executive Officer

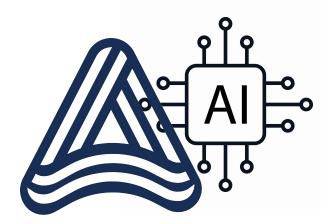
Founding Story

- Founder and CEO Sonny Tai was an Enlisted Marine and Marine Officer
- Grew up in Taiwan and South Africa in formative years; South Africa has one of the highest rates of violent crime in the world (3x the US in homicides per capita)
- Close family friend was fatally shot in home intrusion in Johannesburg, leading to a lifelong desire to combat gun violence.
- Founded the company in early 2018 after reconnecting with undergraduate classmate who lost his sister in the Las Vegas Shooting at Mandalay Bay.

Mission

To build safer communities with AI software that enables existing camera systems to identify and respond to security threats

Actuate's Al Turns Any Camera into a Smart Camera 🚕 actuate





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REALTIME	PCONFIGURE	GLTS	📕 Luxriot"	milestone
MOBOTIX	W Nx Witness	OpenEye	Qognify	Panasonic VIDEOINSIGHT
MOBOTIX		OpenEye UNV	Qognify WISENET	

Smarter Al

Proprietary database of over 1 million images in complex and realistic settings used to train Al models

AWS SageMaker

Built a fully-automated model training pipeline that supports cutting-edge models and new state-of-the-art hardware from Amazon Web Services (AWS)

Deep Integrations

Flexible API Configurations & Integrations With:

Android OS 95% of existing video management platforms



How does Actuate work?

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Existing Surveillance Infrastructure

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Motion / Event detected on video

Model Improvement

O4 Notify Police & Building Occupants

Real-time intelligence enables faster and more precise response



02 Computer Vision Model Detection

Threats identified, tracked, and tagged in real-time

Alert Building Security or Operation Center

Confirms threat and triggers defensive/evacuation measures

Actuate's Al Identifies Key Events in Real-Time

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THREAT DETECTION & FACILITIES MANAGEMENT



Gun Detection

Identifies brandished or held firearms



Intruder Detection

Identifies a person or vehicle where/when they are not permitted



Loitering Detection

Identifies when a person remains in-frame for a given amount of time



Crowd Detection

Identifies the formation of large groups of people



Hard Hat Detection

Detects the absence of proper hard hat usage



Outdoor Fire Detection

Detects the presence of a fire. Compliments existing fire detection systems



Vehicle Gate Automation

Automates vehicle gates for delivery vehicles and school buses

BETA Slip

Slip & Fall Detection

Identifies when person falls to render aid

Overview of Ganz CORTROL VMS & Features

Ganz CORTROL VMS is a video management system providing a solutions platform for security and surveillance needs. It is available in either single-server or multi-server solutions.



Both solutions offer interactive maps, linked alarms, exceptional management of Events and Actions, analytic tools, AD/LDAP, Cyber & Data security functions, and more.



Included with the multi-server edition are Video Wall, Recording Server, Failover, Mirroring, Archive Replication, and Central Management.



Record, search, and view live video from multiple surveillance cameras, manage IoT devices, and manage access control, all from a single platform.



Designed for use in a variety of verticals, including retail, education, healthcare, transportation, and central stations. Scalable and customizable to meet the specific needs of the user, with support for 15,000+ devices from 190+ manufactures.



Ganz CORTROL VMS is a globally-proven solution with over 3 million deployed and managed channels.







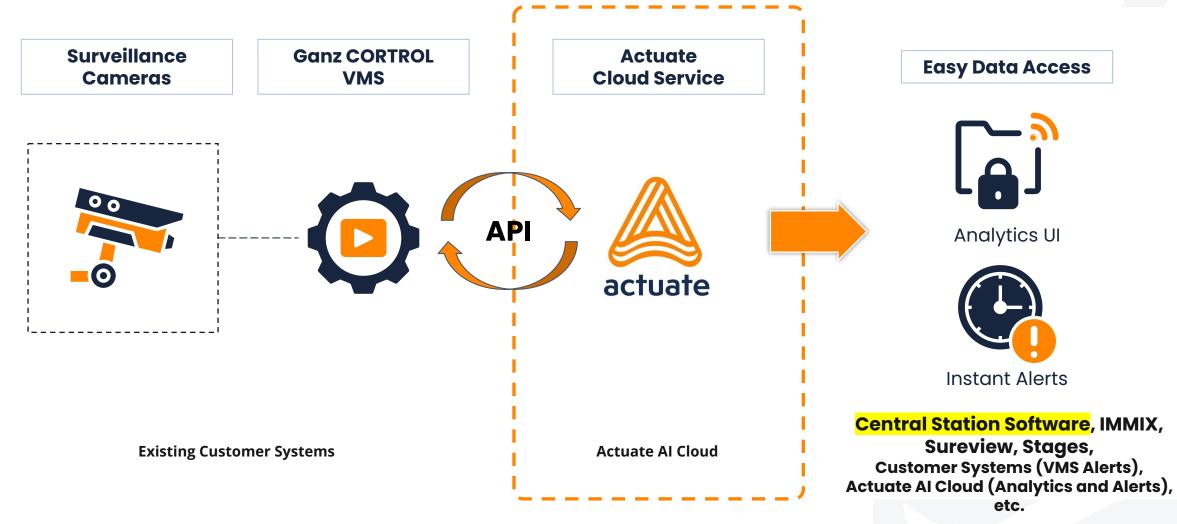
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Technical Overview

Easy Integration: No Hardware Required





* Actuate can integrate with any VMS based on customer demand, except Ubiquity, and is currently a certified partner for most top VMS providers.



Easy Integration: Just a Few, Simple Requirements



INTEGRATION REQUIREMENTS



Connection details

Substream with 480/720p (3 or 5 FPS)

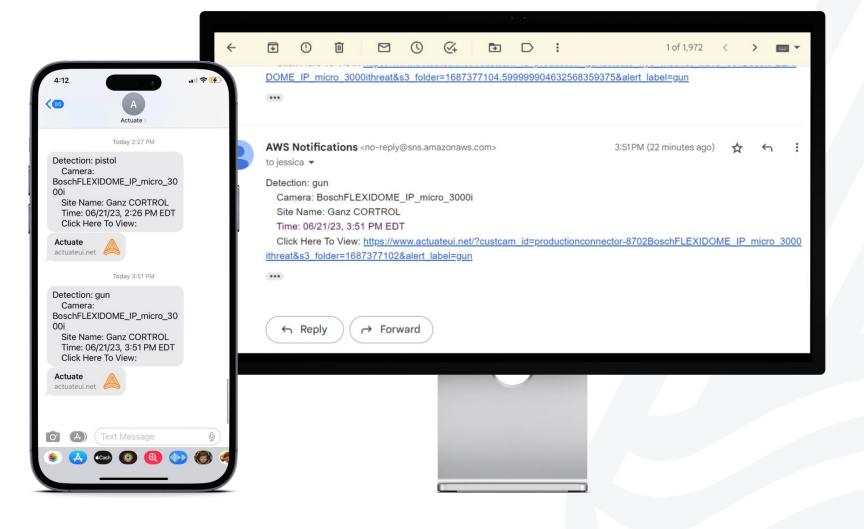
Actuate's software is system agnostic and requires no additional hardware, **resulting in very few additional integration requirements:**



Instant Alerts: Stop Guns, Loitering, Intruders, Crowds



One-time link sent instantly via SMS and/or email enables secure access and data sharing



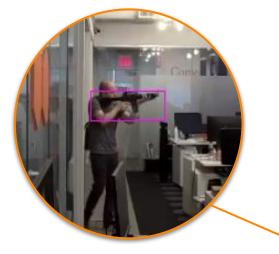


Also available: VMS Alerts provide alert info in existing VMS

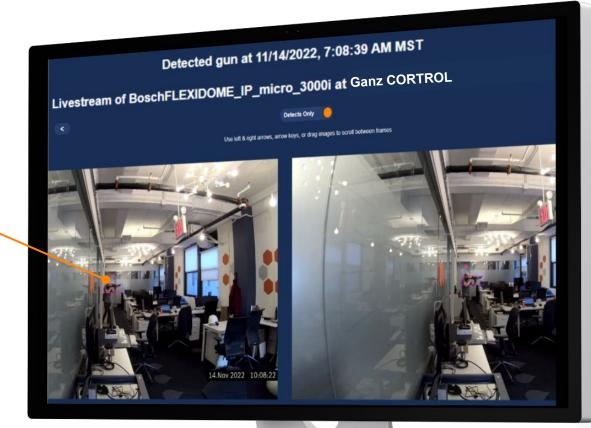


Instant Alerts: Actuate's UI





Bounding boxes to track detections being made over the course of an event



Easily browse detections to identify and react to a situation

Limited Livestream included for ease of access





Integration Benefits

Actuate x Ganz CORTROL Integration Enhances Video Surveillance and Security





Drastically reduce false positives with Actuate's product offerings in addition to advanced features, all available when integrated with Ganz CORTROL



Fast, easy integration with few requirements - no additional hardware required



Easily adopt remote monitoring capabilities with Actuate x Ganz CORTROL and provide security operators with an additional layer of security support

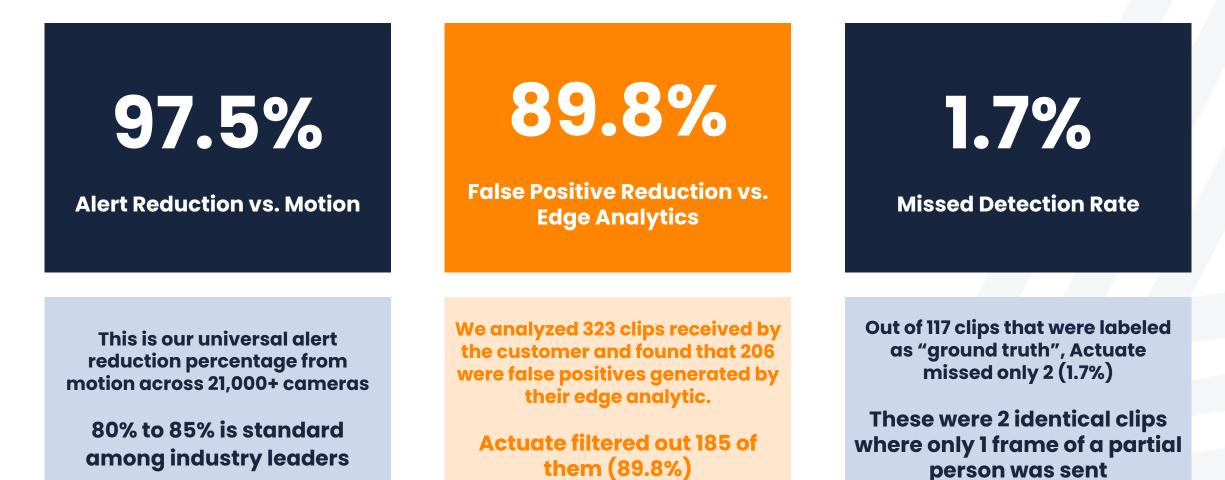


Prioritize proactivity and respond quickly to threats by **receiving actionable information and alerts** during threat events



Actuate By The Numbers: Drastically Reduce False Positives 🛛 🙈 actuate

We conducted a lengthy period of testing, measuring, and benchmarking with one of the largest alarm monitoring companies in the nation. This is what we found:



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Enhancing Video Surveillance with Al



- The **CORTROL Crosslink functionality** delivers Actuate's user interface into a unified client experience
- Advanced notification and reduced false positives are possible with the CORTROL
 VMS and Actuate
- **Fast-response environments** are possible with the CORTROL VMS, Acuate and complimentary technology like Emergency Communications Systems
- Simplifying new installations or retrofitting existing ones
- From small remote monitoring, single buildings, and space-challenged locations to large enterprise campuses, smart cities, and multi-global locations, CORTROL's
 light hardware advantages and Actuate's cloud-based AI make it possible





Verticals & Use Cases





Key Verticals

MONITORING (CENTRAL STATIONS & REMOTE MONITORING)

EDUCATION (K-12 & HIGHER-ED SCHOOLS)

INDUSTRIAL FACILITIES (CONSTRUCTION SITES, ETC.)

PUBLIC/PRIVATE SPACES (RETAIL ESTABLISHMENTS, CORPORATE CAMPUSES, ETC.)

HEALTHCARE (HOSPITALS, CARE FACILITIES, ETC.)



Apply Actuate AI to a Wide Variety of Use Cases





SCHOOLS

- Detect guns before shots are fired during active shooter events
- Enable intruder and vehicle detection to support overnight security operations
- Quickly identify and resolve fights and altercations on school property with **crowd** detection



CAR DEALERSHIPS

- Identify and prevent auto theft with intruding vehicle detection
- Deploy our stationary vehicle filter to further reduce false alarms/positives



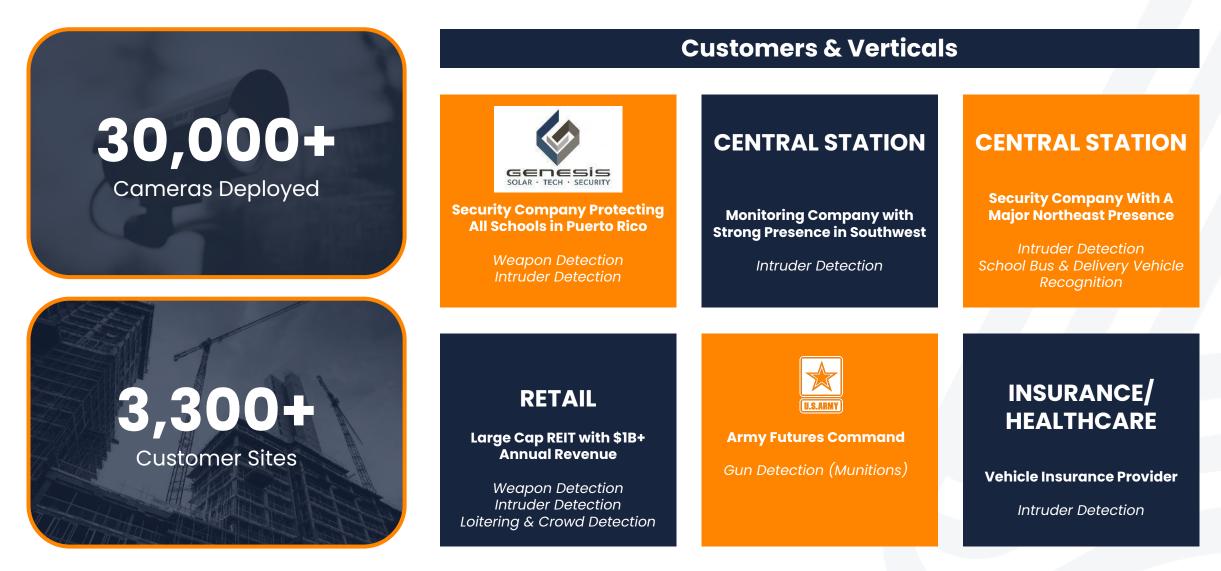
RETAIL

- **Replace or enhance existing burglary alarms** at consumer electronics stores, quick serve restaurants, etc.
- **Quickly respond to armed robbery events** at convenience stores, pharmacies, consumer electronic stores, cannabis dispensaries, etc.



Existing Customers & Verticals

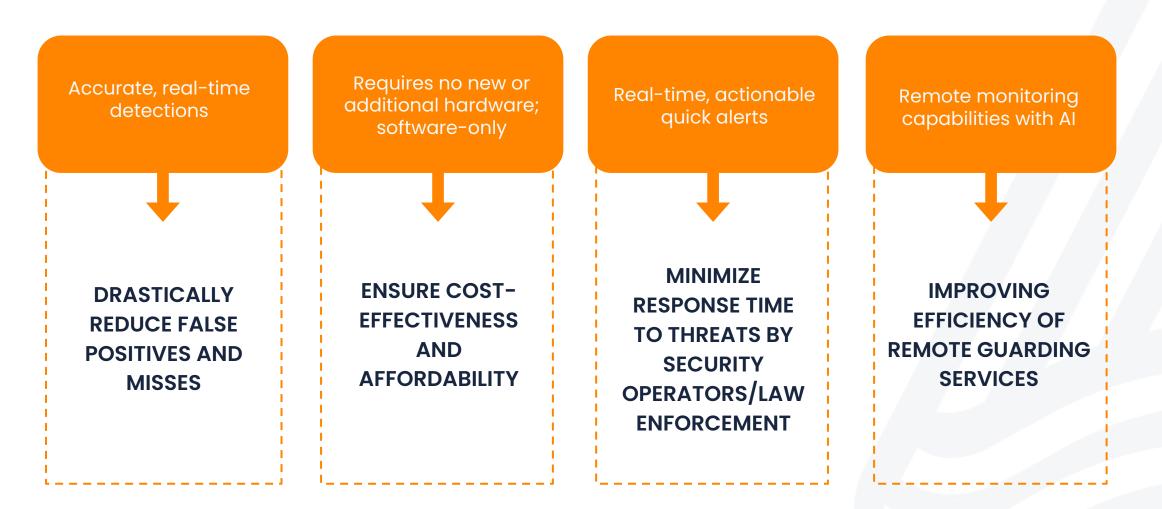








Value To Your Security Systems





Thank you for joining us!

Contact us: info@actuate.ai | ganzinfo@cbcamerica.com