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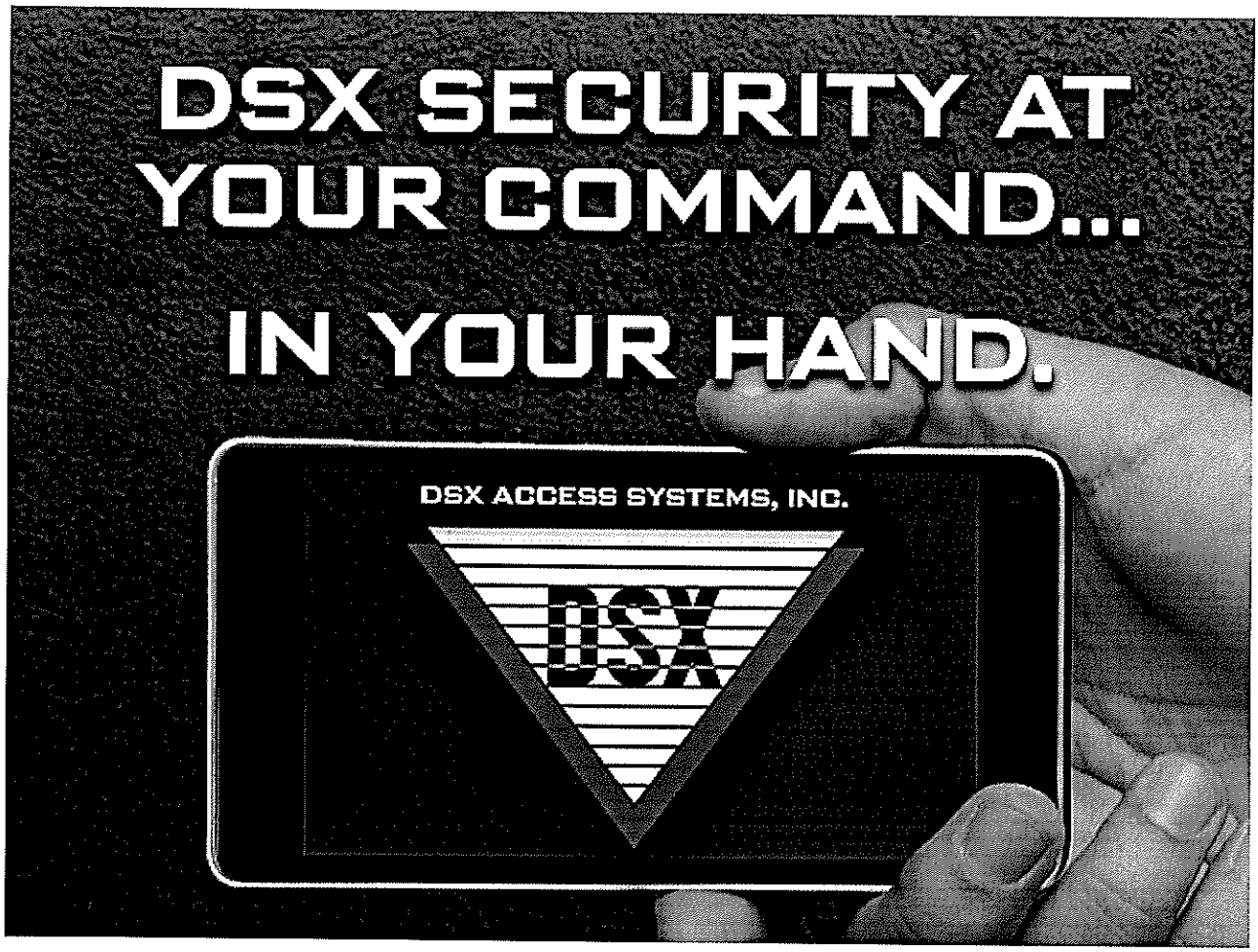

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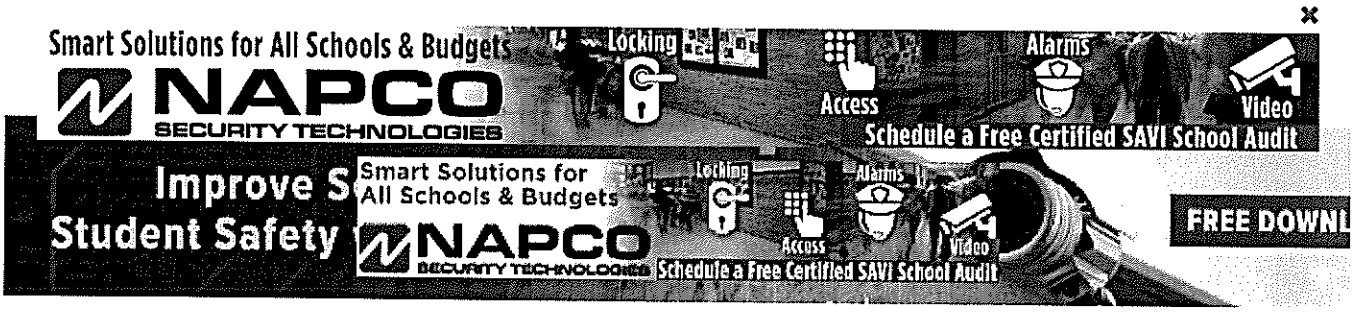

Webcasts

Increasing School Security through Visual Identification

This complimentary webinar will provide you with new ideas to make your school a safer place when students return after the summer break.

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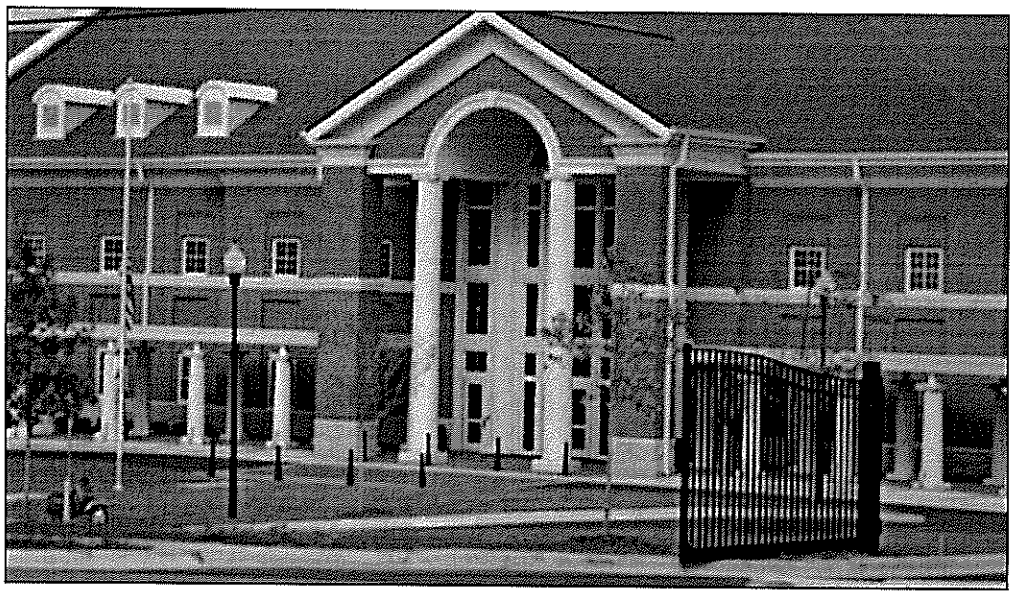

Recent school events have focused the attention of administrators, security officers and IT professionals on raising the level of safety for students, staff and visitors. Policies are created or re-examined to make sure that everyone on campus has a legitimate purpose.

This complimentary we your school a safer place when students re following questions:

- How are schools around the country raising security through visual identification, enforcing staff, students and visitors to wear and display their ID consistently?
- Mapping the details of the security plan at Beekmantown CSD, a district with four schools and 2,500 students, and how is this consistently executed one step at a time?
- What are low cost and easy to implement ideas to strengthen the ID badge program, while benefiting from new functionality for staff, students, volunteers and vendors?

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Speakers

Zach Winn

Senior Editor, *Campus Safety Magazine*

Gary P. Lambert

Director of 21st Century Learning, Beekmantown CSD

Justin Strauss

Business Development Manager, ID Wholesaler

Mike Mans

Secure Issuance Product Marketing Manager, HID Global

Zach Winn is a senior editor at Campus Safety. He has been writing about best practices and solutions in the school security industry since February of 2015.

[illegible] Director of 21st Century Learning for the Beekmantown Central School District in upstate New York, where he has worked for the last 25 years. He started as a Middle & High School French & Spanish teacher, moving to a Technology Coordinator role and his current position. His work experiences have given him a broad knowledge of planning, organizing, and managing the technology infrastructure of a K-12 educational institution as well as an aptitude for integrating that technology into all aspects of the organization. He has overseen countless technology related district initiatives but most recently he has overseen a massive redesign of the district's premise security system to keep staff and students safer.

Mike Mans managed the Direct-to-Card printer portfolio at HID Global, developing and planning of innovative solutions for key target market segments, including education.

Justin Strauss has been with ID Wholesaler since 2007. He has worked with hundreds of schools during this time, evolving their ID badging program by increasing functionality, convenience and security. He currently leads a team of Account Managers in meeting customer needs.

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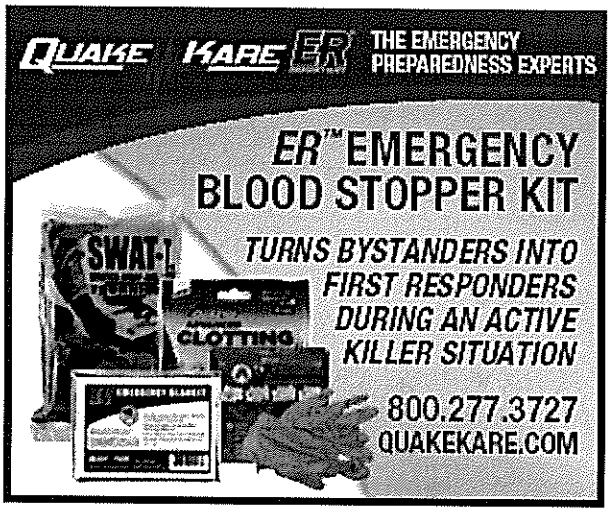

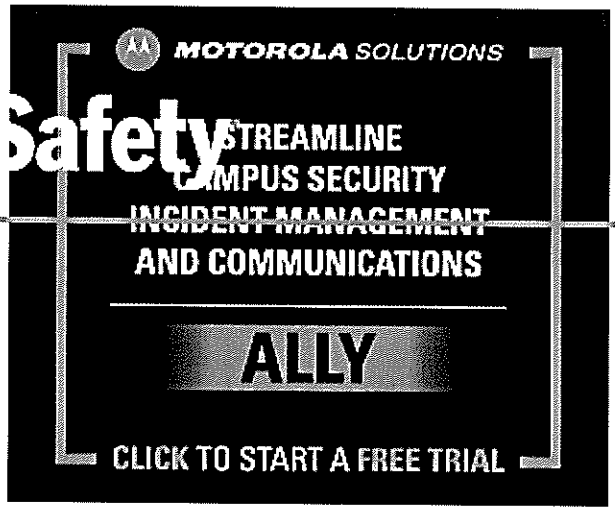

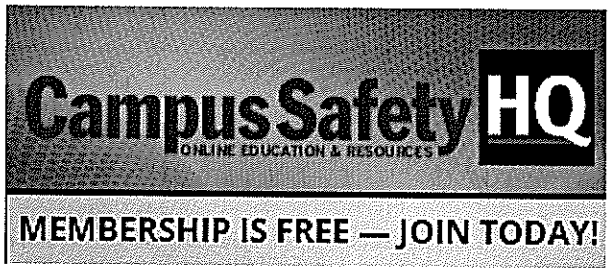

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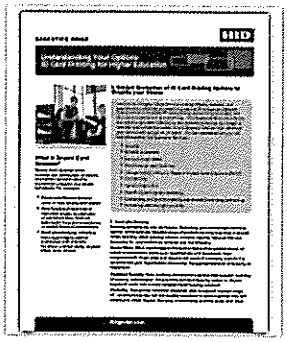
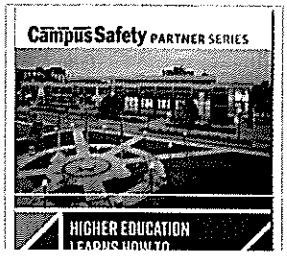


Understanding Your Options: ID Card Printing for Higher Education

This Executive Brief contains a guided evaluation of ID card printing options to simplify your choice.



Higher Education Learns How to Optimize Operations with Video Technology

Download this free report to learn how new developments in video surveillance networking and integration, based on open platform IP technology, are helping colleges and universities make it easier to improve safety and security.

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PATROL

Anonymous Amazon Employee Publishes Op-Ed Opposing Sale of Facial Recognition Tech to Police

October 18, 2018 • by Staff Writer (/authors/504428/staff)

Embed from Getty Images (http://www.gettyimages.com/detail/952605500)

An anonymous employee for tech giant Amazon recently posted an opinion article to Medium (https://medium.com/s/story/im-an-amazon-employee-my-company-shouldn-t-sell-facial-recognition-tech-to-police-36b5fde934ac) in which they argue that the sale of facial recognition software to police is wrong because "the product we're selling is a flawed technology that reinforces existing bias."

In June (https://www.policemag.com/channel/technology/news/2018/06/22/amazon-employees-join-aclu-investors-in-protest-amazon-s-sale-of-tech-to-police.aspx), a group of Amazon employees posted to an internal company Wiki page a letter—later obtained by The Hill (https://thehill.com/business-a-lobbying/393583-amazon-employees-protest-sale-of-facial-recognition-tech-to-law)—asking company executives to discontinue its sale of the company's Rekognition facial recognition software to law enforcement agencies.

The anonymous op-ed published this week rekindles opposition to the sale of that technology to police.

"Amazon, where I work, is currently allowing police departments around the country to purchase its facial recognition product, Rekognition, and I and other employees demand that we stop immediately," the opinion piece reads.

The employee wrote, "Amazon is designing, marketing, and selling a system for dangerous mass surveillance right now," the write states. "Amazon's website brags of the system's ability to store and search tens of millions of faces at a time. Law enforcement has already started using facial recognition with virtually no public oversight or debate or restrictions on use from Amazon."

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Mississippi Constable Dies of Injuries from Crash (/512860/mississippi-constable-dies-of-injuries-from-crash)

Willie Houston "Hoot" West, 81, died at North Mississippi Medical Center in Tupelo, three days after his car left the roadway in a turn on Harrison Road and crashed into a tree.

NEWS (/NEWS)

Airline Honors Fallen Colorado Officer on Flight to Police Week (/512855/photo-airline-honors-fallen-colorado-officer-on-flight-to-police-week)

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- Officer Fitness (https://www.policemag.com/tag tag=Officer+Fitness)

In honor of Deputy Sheriff Heath McDonald Gumm of the Adams County Sheriff's Office—who was shot and killed during a foot pursuit in January 2018—the cabin crew placed Thin Blue Line flags on every passenger seat and re-designated the flight number to Gumm's call sign.

NEWS (/NEWS)

Video: Teen Challenges Pennsylvania Officer to Fortnite Dance-Off (/512853/video-teen-challenges-pennsylvania-officer-to-fortnite-dance-off)

(/512853/video-teen-challenges-pennsylvania-officer-to-fortnite-dance-off)
A video surfaced on social media of an officer with the Altoona (PA) Police Department engaged in a high-stakes contest with a local high school student—a "Dance-Off."

NEWS (/NEWS)

Florida Chief Cites Low Pay for High Employee Turnover (/512852/florida-chief-sites-low-pay-for-high-employee-turnover)

Chief Diane Hobley-Burney presented a case to the city as to why she feels a bigger investment in the police department will reverse turnover trends.

NEWS (/NEWS)

California Officer Embraces Missing Autistic Man (/512849/photo-california-officer-embraces-missing-autistic-man)

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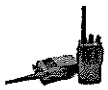

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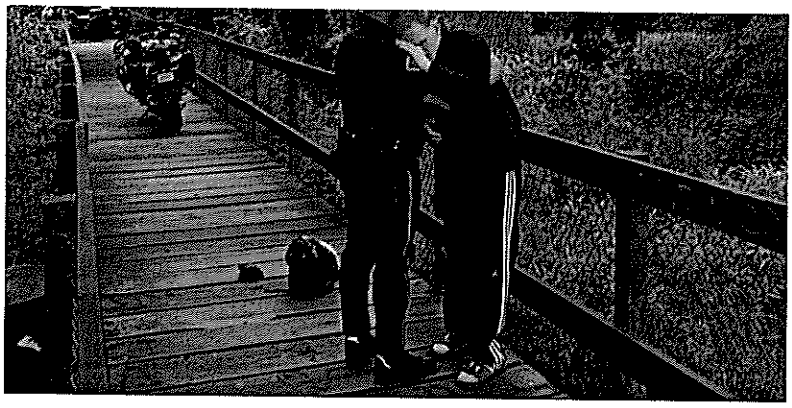

(/512849/photo-california-officer-embraces-missing-autistic-man)
An officer with the Rohnert Park (CA) Police Department is seen in a touching photo giving comfort to an autistic man who had gone missing late last week.

NEWS (/NEWS)

Florida Department Celebrates K-9's Retirement (/512847/florida-department-celebrates-k-9s-retirement)

(/512847/florida-department-celebrates-k-9s-retirement)
Officers with the Jupiter (FL) Police Department are celebrating the successful career of one of its K-9s.

NEWS (/NEWS)

Arizona Officer Discovers Dead Woman in Passenger Seat During Traffic Stop (/512846/arizona-officer-discovers-dead-woman-in-passenger-seat-during-traffic-stop)

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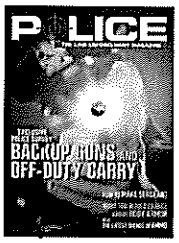

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Officer Adam Edmonds stopped Puckett on I-10 and said he noticed a dead woman propped up in the passenger seat. The woman—identified as 74-year-old Linda Puckett—had reportedly died at a hotel in Texas.

NEWS (/NEWS)

Florida Agency Uses Grant Funds to Buy Steel-Plate Body Armor for Active-Shooter Response (/512845/florida-agency-uses-grant-funds-to-buy-steel-plate-body-armor-for-active-shooter)

A $54,976 grant from the Florida Department of Law Enforcement will go toward purchasing 162 vests.

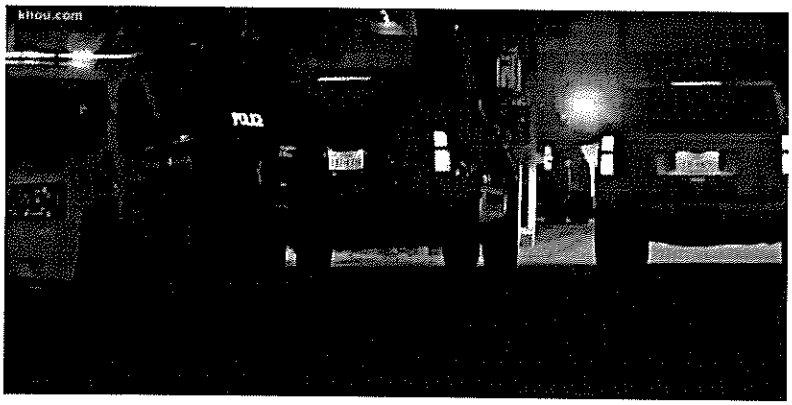
NEWS (/NEWS)

Annual Police Week Vigil Honors Officers Who Paid the Ultimate Price for Public Safety (/512838/annual-police-week-vigil-honors-officers-who-paid-the-ultimate-price-for-public-safety)

In remarks at the annual Police Week Candlelight Vigil held last night on the National Mall in Washington, DC, U.S. Attorney General William Barr honored the fallen, saying the American people need to know that "public safety is bought at a price."

NEWS (/NEWS)

Texas Officer Fatally Shoots Woman After She Grabs His TASER (/512834/texas-officer-fatally-shoots-woman-after-she-grabs-his-taser)



(/512834/texas-officer-fatally-shoots-woman-after-she-grabs-his-taser)

Video of the incident was recorded by a witness and posted on social media. In the video, the woman can be heard shouting "I'm pregnant" before she was shot, but a family member said that claim wasn't true and the woman had mental health issues.

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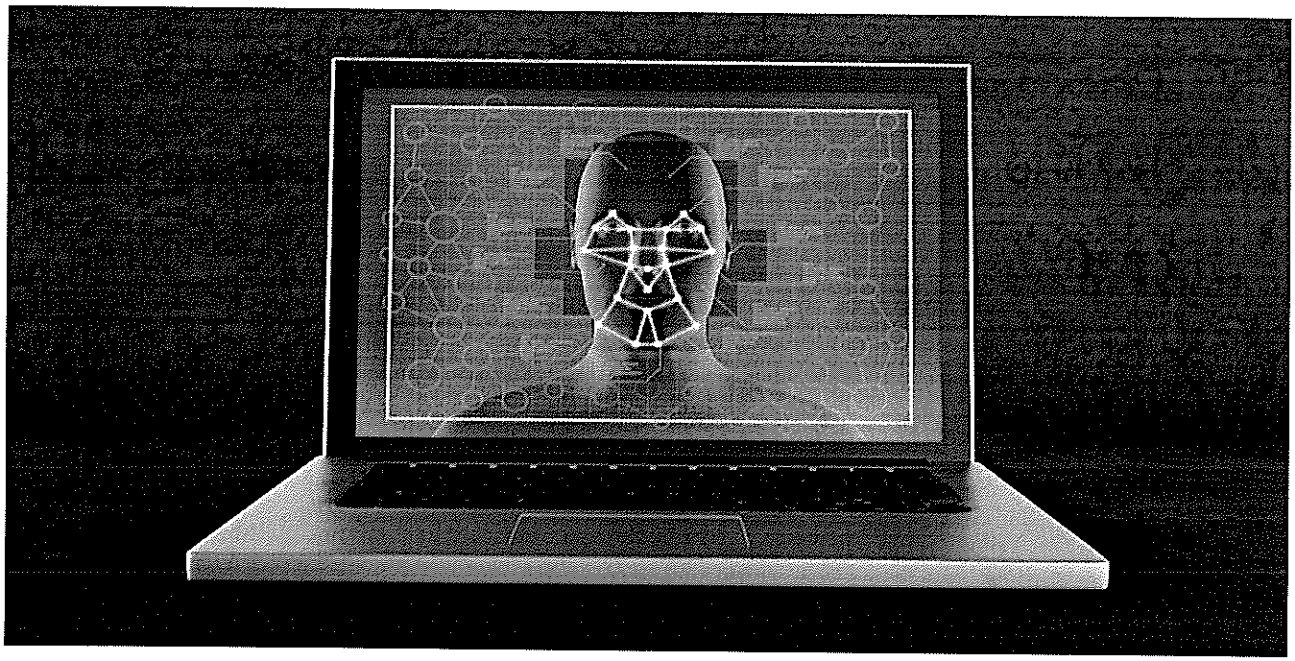
School Safety

School Districts Consider Facial Recognition to Improve Security

One New York school district has begun the installation of 300 facial recognition cameras on its eight campuses using a state grant.



Critics worry the technology will misidentify students and create a negative school climate.

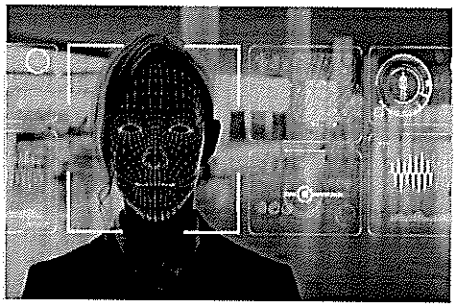
July 26, 2018 Amy Rock Jump to Comments

Some school districts have started the process of integrating facial recognition technology into its surveillance systems while others are still in the early stages of simply considering the technology.

Lockport City School District in upstate New York has begun the installation of 300 facial recognition cameras on its eight campuses using $1.4 million from a $4 million 2014 state grant, reports **Trib Live**.

The technology will check each person's face against a database consisting of expelled students, terminated employees, sex offenders and other possible agitators. It can also identify certain weapons the system is programmed to detect.

"We shake our heads that we're having to deal with and talk about these kinds of security issues, but here we are," said Robert LiPuma, the district's technology director.



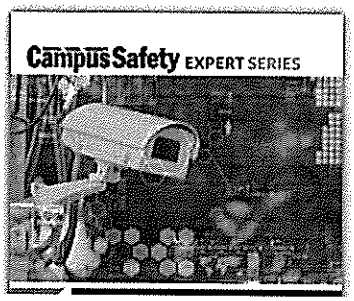
Related: Campuses Must Balance Security Technology with Privacy and Civil Rights

District officials believe the technology could have thwarted shootings like the one in Parkland, Fla., where the gunman was an expelled student with a well-known history of severe mental health issues.

"This would have identified (the gunman) as not being able to be in that building," said Tony Olivo, a security consultant who recommended the system for Lockport.

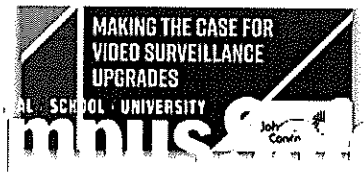
Officials also acknowledge that the system won't stop a determined attacker from coming through the doors or warn against someone who is not a known threat.

"There's no system that's going to solve every problem," LiPuma said. "It's another tool that we feel will give us an advantage to help make our buildings and our communities a little safer."



Making the Case for Video Surveillance Upgrades

Stakeholders who aren't directly involved in security or law



enforcement might not be familiar with what makes up a security camera solution. Download this FREE report for more information about video surveillance systems and their benefits that will help you make your case for an investment in security camera technology. Learn More.

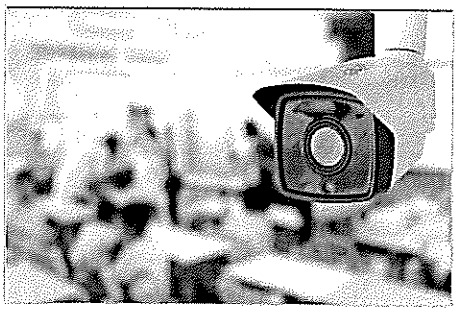
Since Lockport's plans have been made public, many critics have denounced the technology, concerned the software will misidentify students and have a negative effect on school climate.

"Lockport is sending the message that it views students as potential criminals who must have their faces scanned wherever they go," said Donna Lierberman, executive director of the New York Civil Liberties Union, a group that has asked the state Education Department to block the technology from any N.Y. school.

Administrators assure that the system, made by SN Technologies of Ontario, will not build or store a database of student and faculty face prints that could be shared with the government or marketers. Only those seen as threats will be uploaded into the database.

Back in March, the Magnolia School Board in Magnolia, Ark., signed off on spending nearly $300,000 for a facial recognition system that includes over 200 cameras at two secondary schools, according to **Gizmodo**.

In Texas, the Fort Bend Independent School District tasked a 40-member school safety advisory committee with evaluating **school security enhancements** for its 75 campuses and 76,000 students.



Related: More Districts Approve Security Budgets as New School Year Approaches

During a June board meeting, the committee, comprised of students, staff, parents, community members, security experts and two Ford Bend ISD trustees, proposed using facial recognition technology.

"If somebody makes a threat in the community, we could plug their face in and if they pass in front of any of our cameras it would give us an alert

right away," said Fort Bend ISD Police Chief David Rider, who presented the suggestion during the board meeting.

[illegible] with the Electronic Frontier Foundation, a digital rights group, said any school considering **facial recognition** must consider who will have access to data, how such a system would be managed and whether students can opt out.

Fort Bend ISD trustees expect to vote on the technology and other security items during an Aug. 13 board meeting. If approved, the entire referendum could total $1.7 billion.

Tagged with: Facial Recognition • School Safety • School Security • Security Technology • Security Upgrades • Student Safety

About the Author

AMY ROCK, Senior Editor

Contact:

Amy Rock is Campus Safety's senior editor. She graduated from UMass Amherst with a Bachelor's Degree in Communications and a minor in Education.

She has worked in the publishing industry since 2011, in both events and digital marketing.

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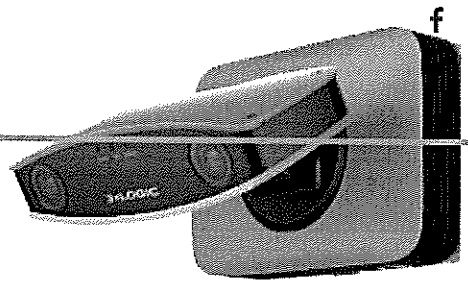

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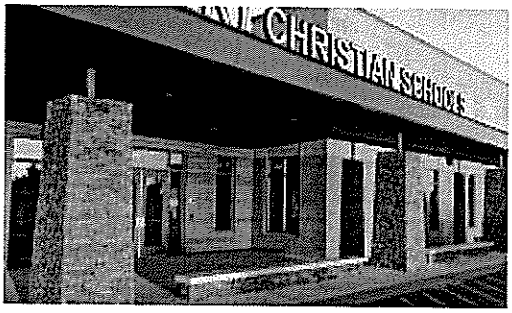
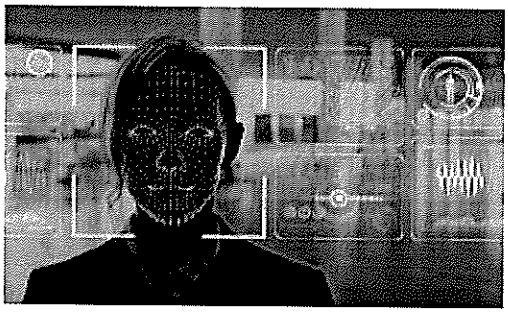
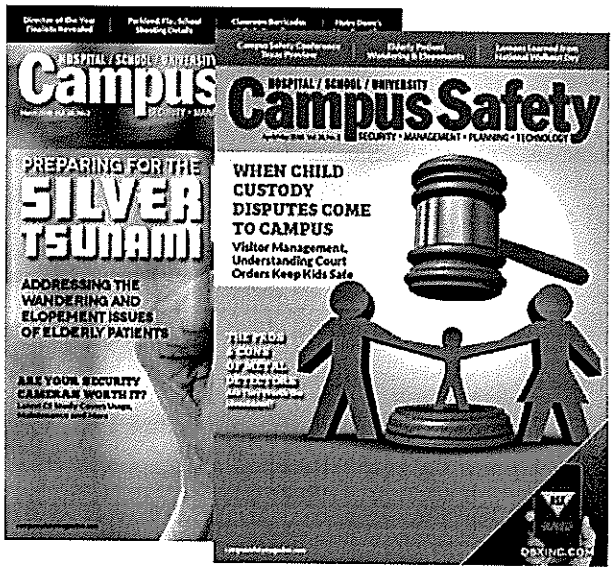


Gilbert Christian Schools Improves Access Control & Security Operations



Campuses Must Balance Security Technology with Privacy and Civil Rights



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2 responses to "School Districts Consider Facial Recognition to Improve Security"

Steve says:

July 31, 2018 at 10:47 am

WHY? Seems like a waste of money especially since most of the shooting are from students that ATTEND the school. All the program will do is recognize "Jimmy" as being authorized on campus not that he has a backpack filled with ammo and guns.
Need more suitable programs...Increased resource officers, video monitoring of approaching personnel, stricter guidelines to what can be brought into school, homework via internet so books aren't needed. etc. etc..

Reply

ARMANDO Seay says:

August 15, 2018 at 11:52 am

Most of tge technology on the market today used a set of training data for facial Recognition based on a standard set of characteristics. This training set does have some built in bias factors that leads to a degree of false positives that must be mitigated by a human. More importantly the new technologies hitting the market such as Kogniz take a different approach yo the machine learning and AI capabilities in the camera that increase accuracy of recognition.

Also important is the ability of the new cameras entering the market to recognize movements that could indicate a violent event in progress. This type of capability makes cameras a proactive threat mitigator rather than a witness to an event and an after action forensic tool.

Schools can reduce overhead and technology total cost of ownership by using cloud based solutions that eliminate the cost of servers and DVRs. The ability to share live video with first responders using tablets, iPhones and android devices is important. There are gateway solutions that will bridge surveillance systems in schools with those of police

departments as well – eliminating the need to have a single vendor solution for shared video to be implemented. Police can then assess what is going on using live feeds and determine the best course of action during an active shooter event.

As always, cyber security must play a role to ensure secure video distribution and monitoring by authorized personnel only. Schools must know where the data being collected by cameras is going at all times. Data loss prevention tools can track this information and help prevent unauthorized downloads, uploads and forwarding.

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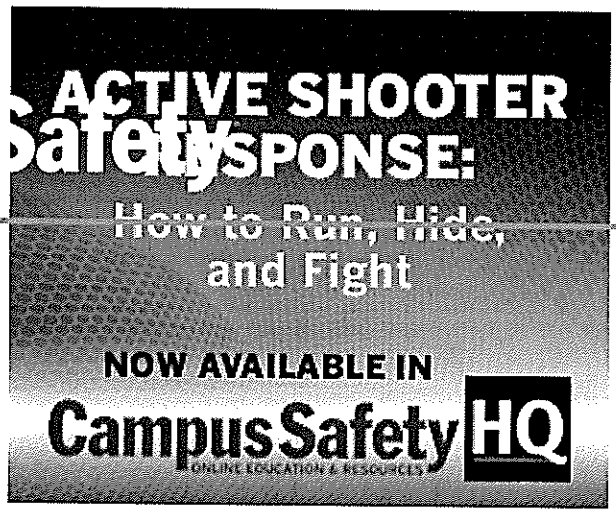
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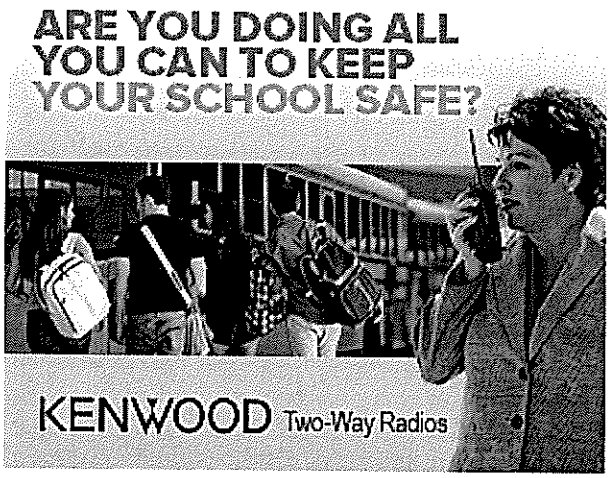
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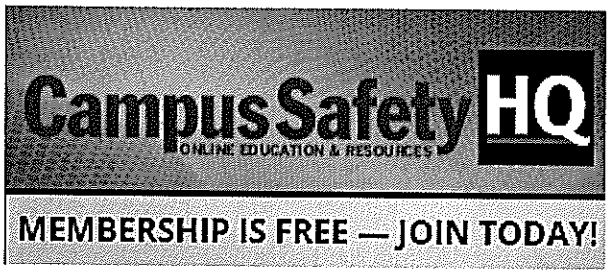

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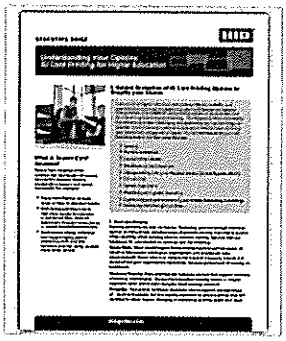
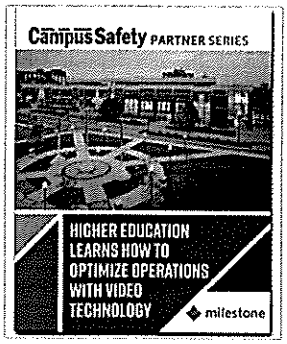


Understanding Your Options: ID Card Printing for Higher Education

This Executive Brief contains a guided evaluation of ID card printing options to simplify your choice.



Higher Education Learns How to Optimize Operations with Video Technology

Download this free report to learn how new developments in video surveillance networking and integration, based on open platform IP technology, are helping colleges and universities make it easier to improve safety and security.

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IS-800 B National Response Framework Exam Questions

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Dear Detective,

Hello, my name is Fran from Suspect Technologies. We developed a highly accurate facial recognition technology that works for any cameras to make identification of people, easier and faster. In turn, we hope it will make identification of suspects easier, save resources, save time, and of course reduce crime. We are currently trying to gather insights to see if this technology works for you, any suggestions or comments, and if this is something that you think would be helpful for you in investigations and possibly the field. Just to be clear, I'm not necessarily trying to sell you anything. We are a spin-off from MIT. We are trying to understand if detectives want this or not and how they are currently using facial recognition and related technologies. Any feedback is helpful. Are you available to answer some quick questions via email or phone?

Best Regards,
Fran
Suspect Technologies

PATROL

Florida Department Extends Test of Amazon's Facial Recognition Software

July 9, 2018 • by Staff Writer (/authors/504428/staff)

Embed from Getty Images (http://www.gettyimages.com/detail/90339752)

The Orlando Police Department plans to continue its test of Amazon's controversial "Rekognition" facial recognition software, despite opposition (https://www.policemag.com/blog/technology/story/2018/06/balancing-privacy-rights-and-facial-recognition-technology-for-police.aspx) from civil rights groups such as the ACLU and even company employees and investors.

Rekognition can identify a person in a crowd matching an image uploaded to the system and track their movements in real time. The department had been using a free "proof of concept" trial of the system with seven police officers who volunteered to participate having images uploaded.

According to the Orlando Sentinel (http://www.orlandosentinel.com/news/orange/os-orlando-extends-amazon-test-20180709-story.html), the department informed Mayor Buddy Dyer and the city council that more time was needed to make a "thoughtful, precise and comprehensive recommendation" on whether or not the city should eventually purchase the technology.

Read more about technology (/tags?tag=technology) Facial Recognition (/tags?tag=Facial+Recognition) Florida (/tags?tag=Florida) the south (/tags?tag=the+south) ACLU (/tags?tag=ACLU) Florida agencies (/tags?tag=Florida+agencies) Biometrics (/tags?tag=Biometrics)

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Mississippi Constable Dies of Injuries from Crash (/512860/mississippi-constable-dies-of-injuries-from-crash)

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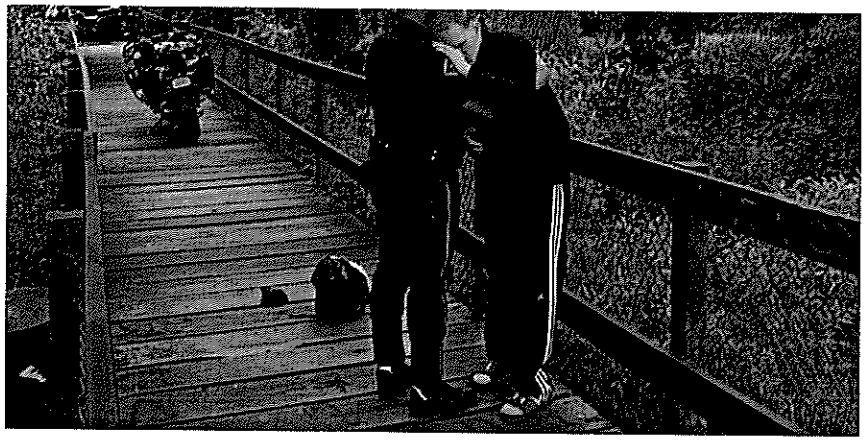

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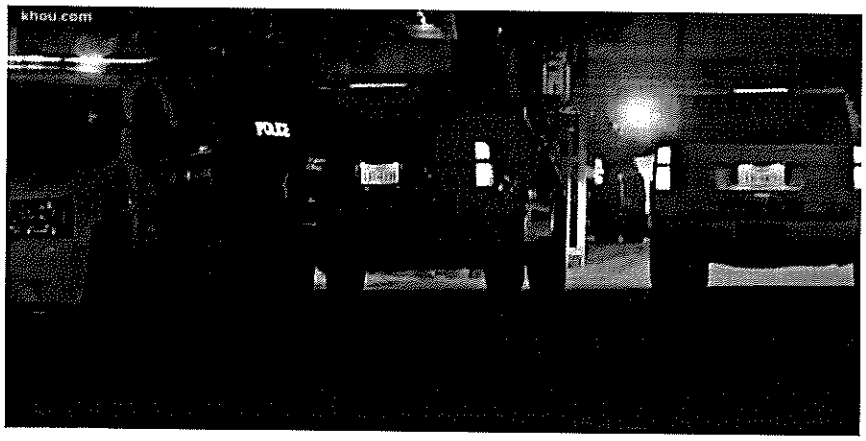

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TECHNOLOGY

Ekin: Smart Patrol in a Lightbar

February 7, 2018 • by Melanie Basich (/authors/338067/melanie-basich)

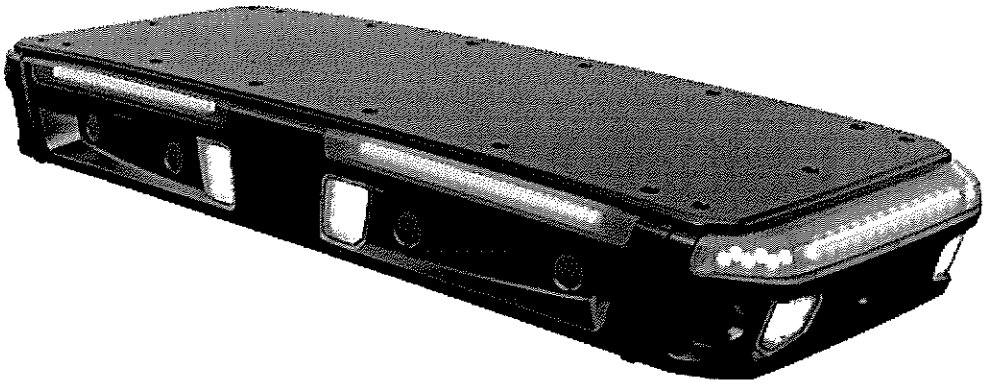

Photo: Ekin

What if you could install one product on a patrol car that provided capability for automatic license plate recognition, facial recognition, and speed and parking violation detection? Billed as the first and only smart patrol in the world, Ekin's Patrol G2 is designed to do just that, in the form of a fully functioning lightbar.

According to Orkunt Yozgat, director of business development and marketing for Ekin, this mobile product is capable of keeping cities around the world safe. "The benefits of Patrol G2 come from its versatility and integrated software," says Yozgat. This "plug-and-play product" can be easily mounted to virtually any emergency vehicle and works autonomously without the need for additional hardware. And Patrol G2's connection to a centrally managed system via the proprietary Red Eagle OS allows officers to view and compare surveillance data from all around the city to better respond to and investigate incidents.

The second generation of the original Ekin Patrol, Ekin Patrol G2 has been completely redesigned with new technology that can detect vehicle speed across five lanes of traffic and read license plates between closely parked vehicles to better enable parking enforcement.

All aspects of Patrol G2 are designed to work together, taking advantage of their integration. The lightbar unit incorporates cameras on all four sides to provide a 360-degree view of the area being patrolled. In concert with the Red Eagle OS, this allows Patrol G2 to constantly scan the area for the license plates of wanted vehicles as well as the faces of suspects in a crowd using Ekin's proprietary facial recognition software.

Ekin's Patrol G2 connects to other city systems via the Red Eagle OS so officers can view all video citywide. ***Photo: Ekin***

"Equipped with Ekin Face, Patrol G2 captures all faces within its field of view and compares them with a police department's database of wanted suspects," Yozgat says. "With face analysis, Ekin Face clearly lists possible time ranges, images, and videos where specified individuals might appear, making it simple to comb through hours of video surveillance."

Ekin Red Eagle OS allows Patrol G2 units to act as part of centrally managed Ekin systems and communicate with other city surveillance systems to facilitate law enforcement response.

"When a wanted car or person is located, Red Eagle alerts the officer by sending a notification to their smart device," Yozgat explains. "Ekin Red Eagle (OS) also makes central management and communication between all systems streamlined and simple, so it is easy for law enforcement agencies to compare surveillance footage from all devices across a city."

Ekin provides all its customers with training in how to use Patrol G2 and the system it integrates with. The first training is in person and follow up trainings, if needed, are done via the web. If further assistance is needed, Yozgat says Ekin support specialists can always assist customers with whatever they require.

"Ekin's mission is to enable law enforcement to more efficiently and effectively protect the public by providing them with state-of-the-art software and hardware that makes their job easier," says Yozgat. "With Patrol G2, police departments have an extra set of eyes patrolling the streets, and it's easy for law enforcement to centrally manage and decipher the data and videos gathered by Ekin's line of products."

Read more about Emergency Lighting (/tags?tag=Emergency+Lighting)
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Video: Could a Robot Make Traffic Stops Safer? (/512502/video-could-a-robot-make-traffic-stops-safer)

(/512502/video-could-a-robot-make-traffic-stops-safer)

Once the officer's vehicle is parked behind the motorist's car, GoBetween rolls up to the driver's side window of the motorist, where it becomes the officer's eyes, ears and mouth. A spike strip automatically placed in front of the car's rear wheels keeps the motorist from driving away until the traffic stop is completed.

NEWS (/NEWS)

Knightscope Adds Facial Recognition to K1 Security Robots (/512416/knightscope-adds-facial-recognition-to-k1-security-robots)

"Prospective clients were able to upload a photo into the Knightscope Security Operations Center (KSOC) and then watch the K1 detect and report them as they moved about the booth. One creative individual even attempted to elude 'capture' by donning a pair of dark sunglasses to no avail," the company says.

NEWS (/NEWS)

Gamber-Johnson Wins WI Governor's Export Achievement Award (/512377/gamber-johnson-wins-wi-governors-export-achievement-award)

Gamber-Johnson has been named the recipient of the 2019 Governor's Export Achievement Award by the Wisconsin Economic Development Corporation (WEDC) for its contribution to Wisconsin's exporting strength.

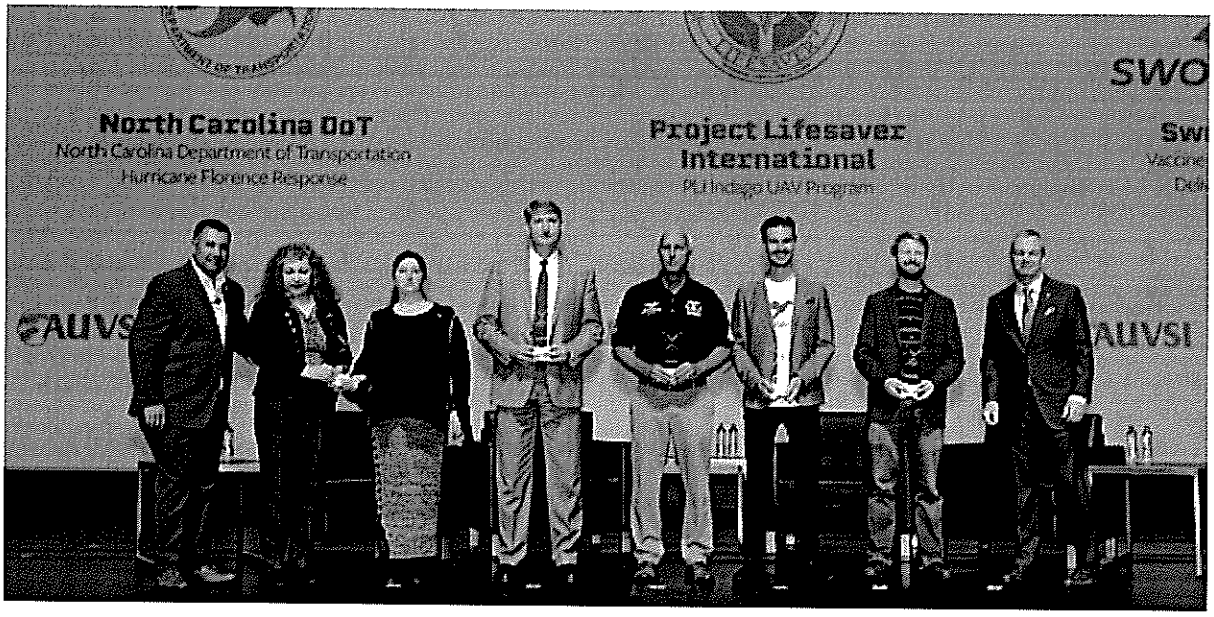
NEWS (/NEWS)

San Francisco Could Ban Use of Facial Recognition by Law Enforcement (/512178/san-francisco-could-ban-use-of-facial-recognition-by-law-enforcement)

The proposal, introduced by San Francisco Supervisor Aaron Peskin, would also require public input and the supervisors' approval before agencies buy investigative technology with public funds. That includes the purchase of license plate readers, toll readers, closed-circuit cameras, body cams, and biometrics technology and software for forecasting criminal activity.

NEWS (/NEWS)

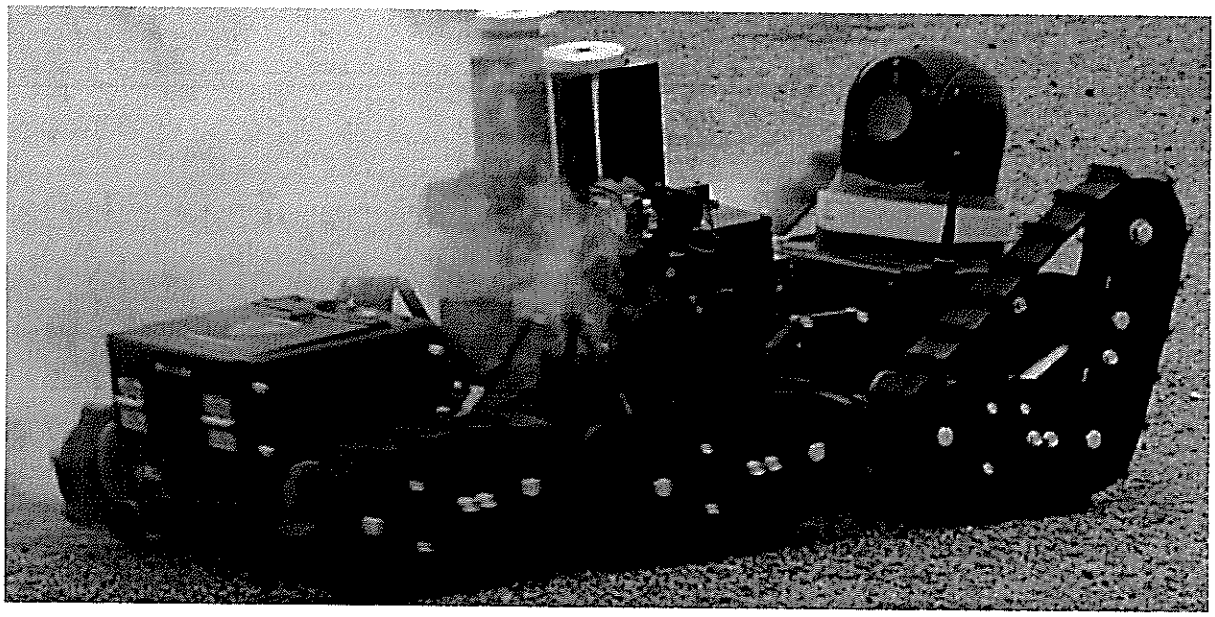
Project Lifesaver International Receives Prestigious International Humanitarian Award (/511812/project-lifesaver-international-receives-prestigious-international-humanitarian-award)



(/511812/project-lifesaver-international-receives-prestigious-international-humanitarian-award)
Project Lifesaver International (PLI) has been awarded the Humanitarian Xcellence Award by the Association for Unmanned Vehicles Systems International for its use of DJI drones to locate missing persons.

NEWS (/NEWS)

Transcend Tactical Introduces Mobile Gas Deployment System for Robots (/511756/transcend-tactical-introduces-mobile-gas-deployment-system-for-robots)



(/511756/transcend-tactical-introduces-mobile-gas-deployment-system-for-robots)
Transcend Tactical has launched a gas deployment system that can be added to its Vantage robot to deploy two hot or cold gas grenades remotely and with mobility.

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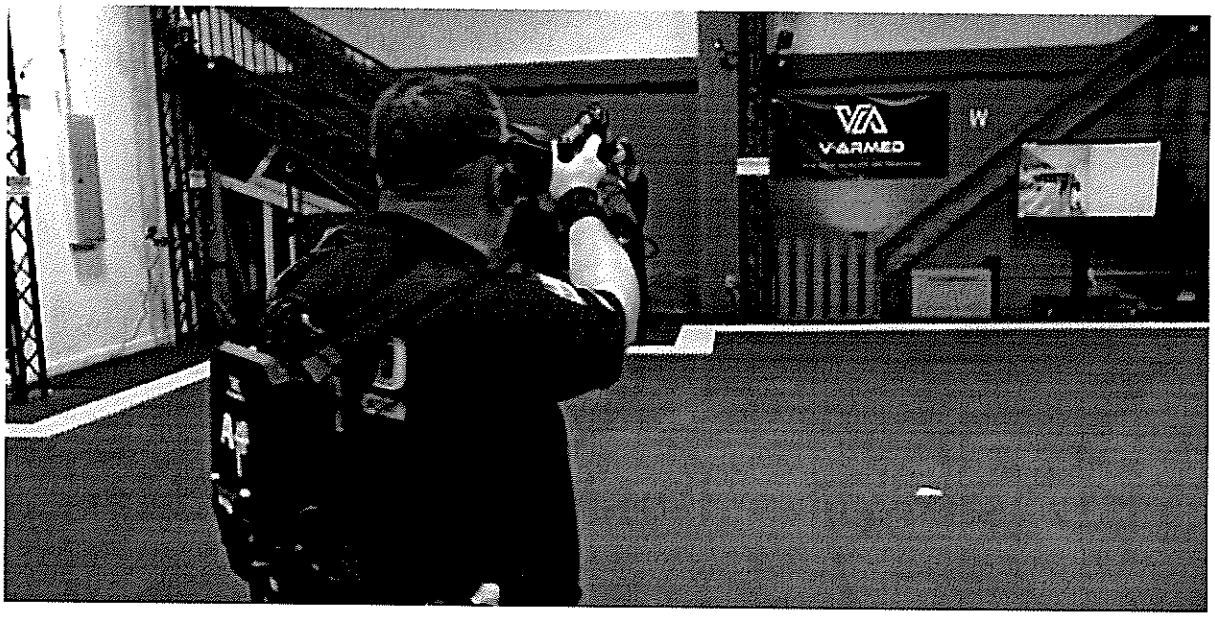
The Role of Data Analytics in Intelligence-Led Policing (/511412/the-role-of-data-analytics-in-intelligence-led-policing)

An agency's data is only as good as what it allows them to do next. Public safety agencies can increase situational awareness and decrease crime in the community by utilizing data analytics to the fullest extent.

NEWS (/NEWS)

NYPD Testing Virtual Reality-Based Training

(/511543/nypd-testing-virtual-reality-based-training)



(/511543/nypd-testing-virtual-reality-based-training)

The NYPD is testing a virtual reality scenario-based training system. About 200 officers participated in the training program, which was conducted earlier this month at a state-of-the-art facility in Williamsburg, Brooklyn.

NEWS (/NEWS)

Axon Develops Tool for Measuring Officer Performance and Identifying Training Needs Through Body Camera Footage (/511538/axon-develops-tool-for-measuring-officer-performance-and-identifying-training-ne)

Axon has announced the launch of Axon Performance, a data analytics tool that helps to streamline the policy review process for law enforcement agencies. Axon Performance allows supervisors to more efficiently review video footage, perform agencywide officer performance evaluations, identify training needs and save officers time so they can spend more time in their communities.

NEWS (/NEWS)

Axon Launches First Advanced AI-Powered Redaction Tool (/511537/axon-launches-first-advanced-ai-powered-redaction-tool)

Axon has announced the launch of Redaction Assistant, the first advanced artificial intelligence (AI) powered tool to be offered to law enforcement agencies and prosecutors through the Axon network. Redaction Assistant is a productivity tool built to increase efficiency for agencies who currently spend up to eight hours manually redacting each hour of body camera video footage.

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PATROL

Florida Court Hearing Appeal of Case Involving Facial Recognition Technology

March 12, 2018 • by Staff Writer (/authors/504428/staff)

The Florida state's appellate court is deciding whether the Jacksonville Sheriff's Office and local prosecutors properly handled a conviction that hinged on the identification of a suspect using an innovative police surveillance technology.

The First District Court of Appeals is due to break new legal ground in determining whether police are allowed to use facial recognition software to identify suspects without ever notifying them of the technology.

The court battle, regarded by researchers as the first of its kind in the country to consider how the surveillance tool can be used in a criminal case, is being waged over a statewide biometric database of faces run out of the Pinellas County Sheriff's Office — one that extends to anyone with a Florida driver's license despite their criminal histories, or lack thereof, the Florida Times-Union (http://www.jacksonville.com/news/20180312/police-surveillance-technology-under-fire-in-appeal) reports.

Undercover detectives from the Jacksonville Sheriff's Office accessed the system through an intermediary in September 2015 to generate a lead after hitting a dead end in their search for the perpetrator of a $50 crack buy. More than two years later, state prosecutors with the Florida Attorney General's office are making novel arguments to defend the agency's use of the controversial technology.

Read more about Biometrics (/tags?tag=Biometrics) Facial Recognition (/tags?tag=Facial+Recognition) Florida (/tags?tag=Florida) the south (/tags?tag=the+south) Florida agencies (/tags?tag=Florida+agencies)

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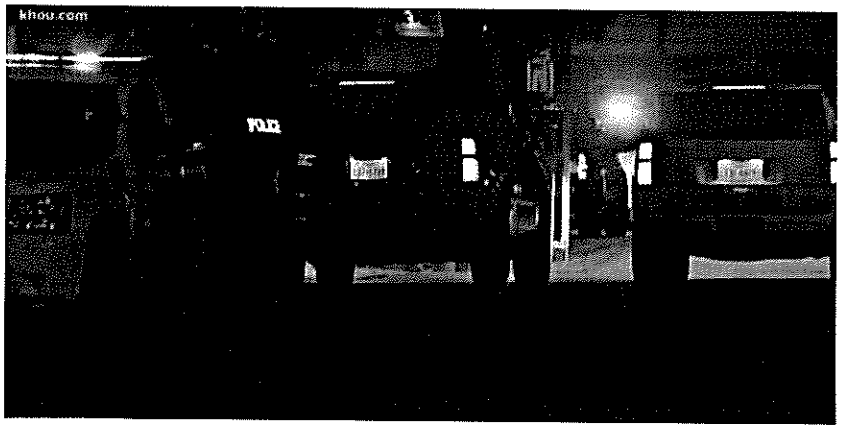

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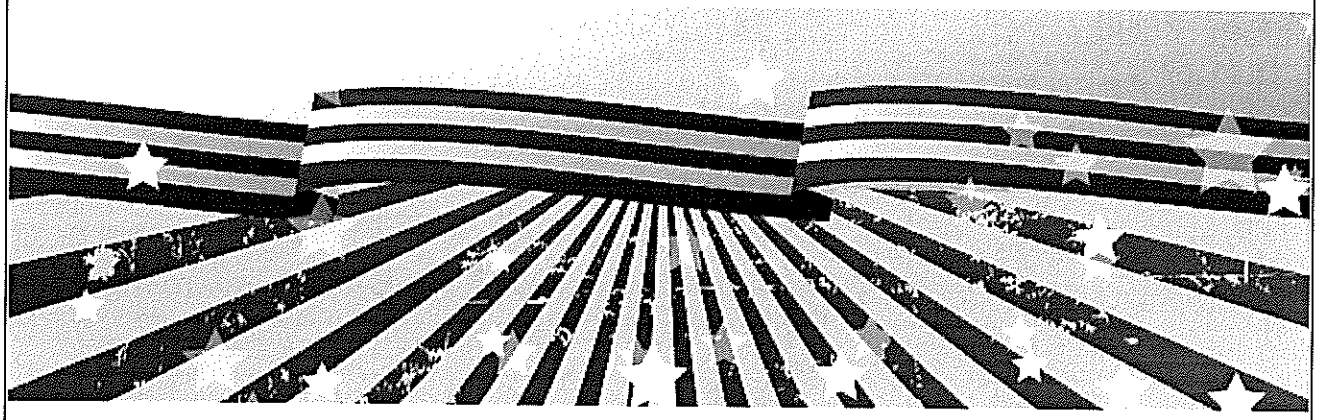

IJIS Institute National Symposium

EARLY BIRD ENDS TONIGHT

IJIS Institute

Date
Feb. 6*-9, 2018

Location
Crystal Gateway Marriott
1700 Jefferson Davis Hwy
Arlington, VA 22202

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1. Badge & Tech Benefit for the National Law Enforcement Officers

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This year, your PAID registration includes the Advisory Committee Meetings and the Facial Recognition Task Force, plus, you can attend the Privacy Summit and the Badge & Tech Benefit & Awards Dinner ** at no additional cost.

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- Blockchain and Its Potential Use in the Courts
- FirstNet update
- NIST Single Sign-on for Mobile Native and Web Applications
- Facial Recognition Policy Challenges
- Using Data Analytics with NIBRS to Achieve Informed Planning Decisions
- And many others...

Memorial Fund on Feb. 7

2.
Privacy Summit on afternoon of Feb. 8, morning of Feb. 9

See the Agenda

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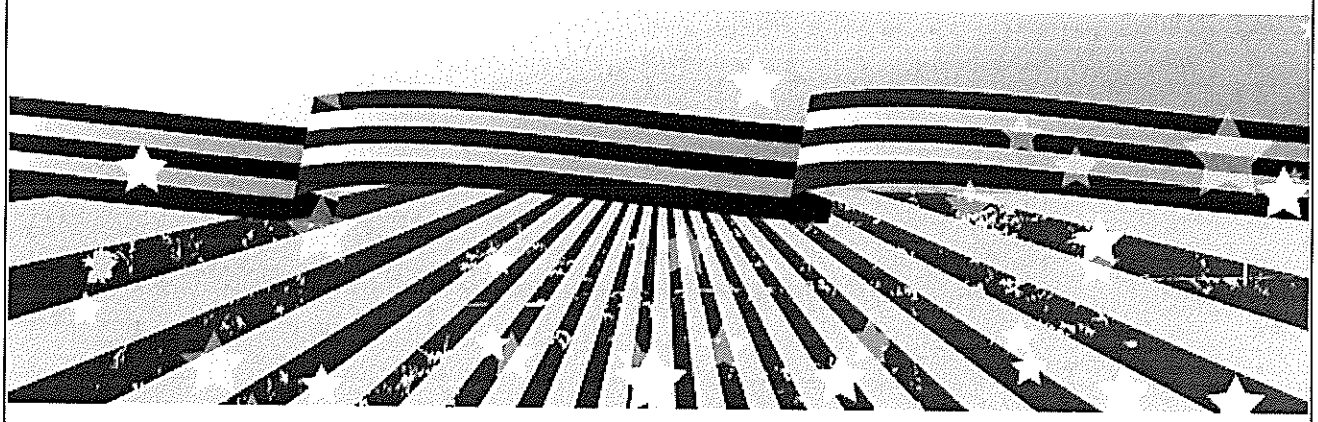

IJIS Institute National Symposium

Accelerating Technology Innovation

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IJIS Institute

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Feb. 6*-9, 2018

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Join your justice, public safety and homeland security government and industry colleagues in Arlington, Virginia on February 6*-9, 2018, to *Accelerate Technology Innovation*. Learn more about the state of information sharing, technology innovation, the IT challenges others have faced, and the solutions they have implemented.

Meet and share with government practitioners from around the U.S and territories. Won't you join your peers from **Iowa, North Dakota, New York, New Jersey, Virginia, DC, Missouri, Louisiana, Nebraska, South Carolina, California, and the North Mariana Islands?**

This year's roster of speakers includes industry experts and government executives from:

Recognition

Privacy Summit
afternoon Feb. 8
morning Feb. 9

- Department of Justice
- Federal Bureau of Investigation
- Arlington County, Virginia
- National Institute of Standards
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- And many others...

See the Agenda

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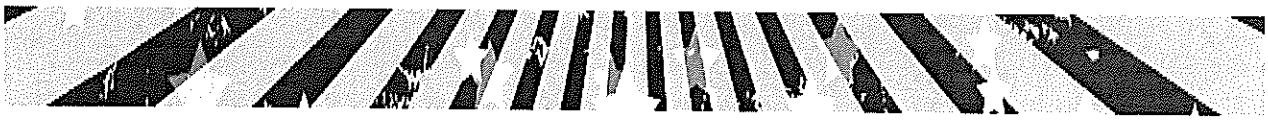

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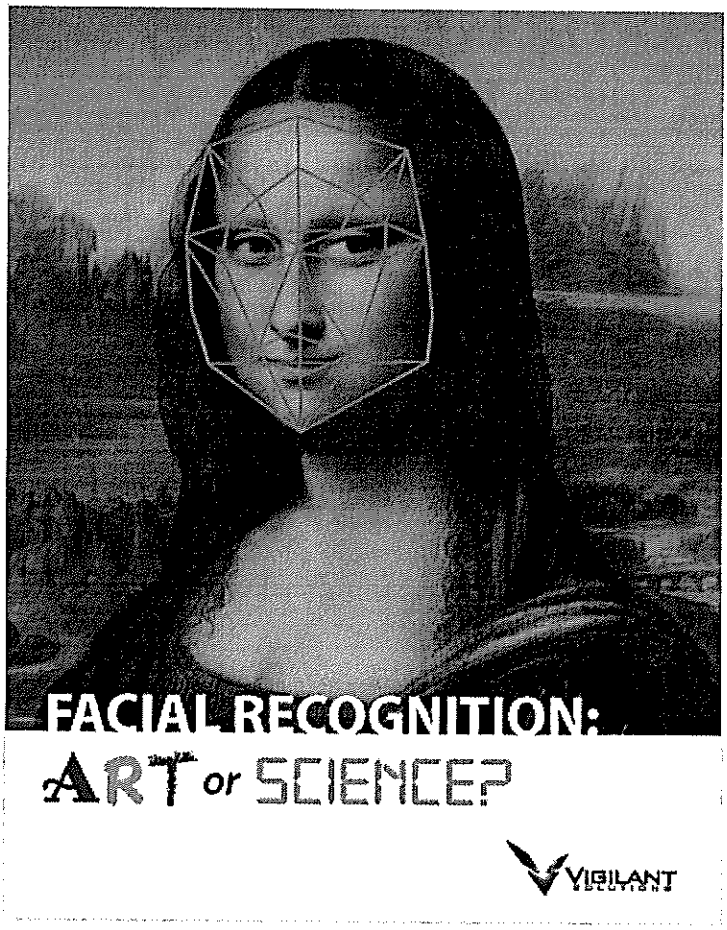
Facial Recognition: Art or Science?



Generating a list of high-quality leads using facial recognition technology is now within reach for agencies of all sizes. Learn how facial recognition works, best practices for capturing probe images, and new breakthrough image pre-processing techniques that anyone can employ.

By Vigilant Solutions

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Last Name *

Job Title *

Company Name *

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Address *

Department/Mail Stop

City *

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Zip/Postal Code *

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- [ ] Motors
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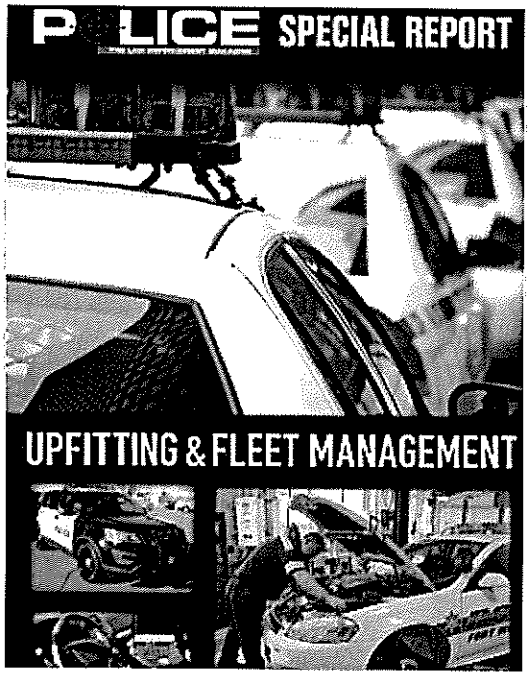

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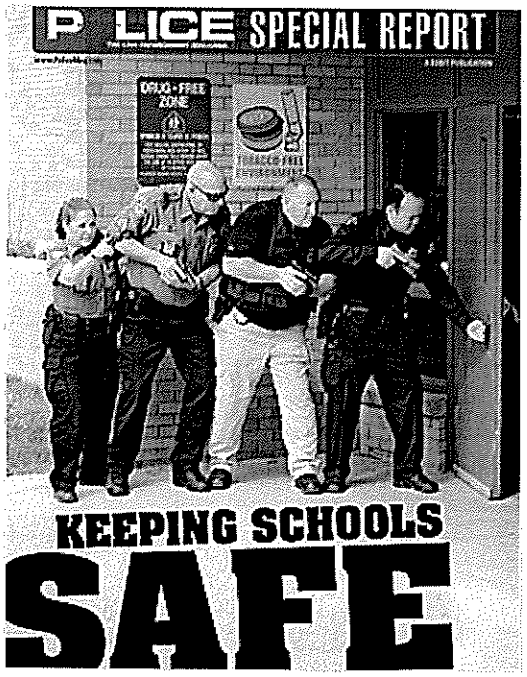

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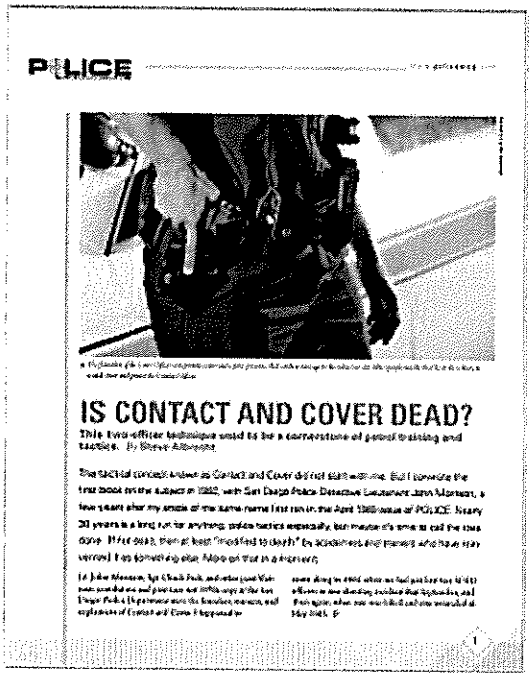
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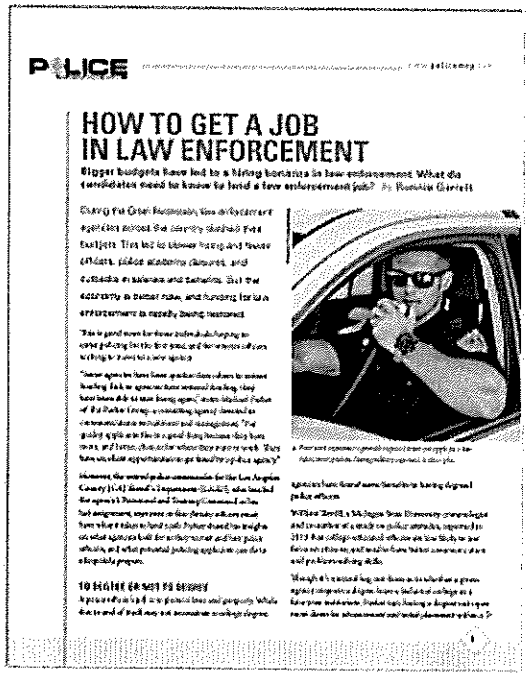
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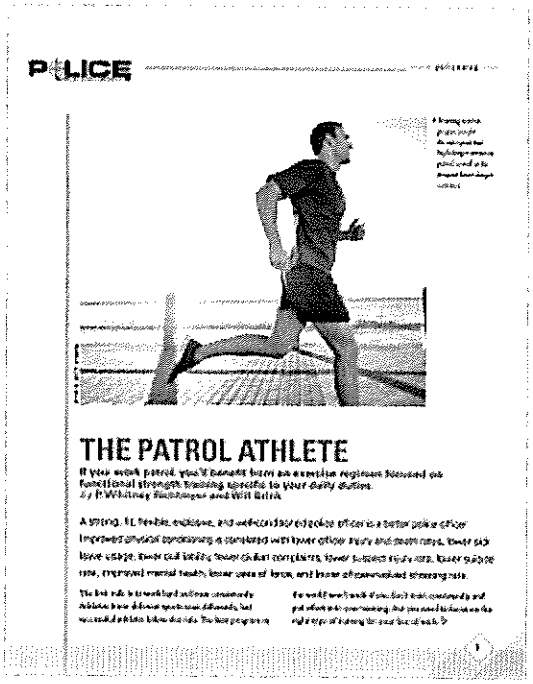
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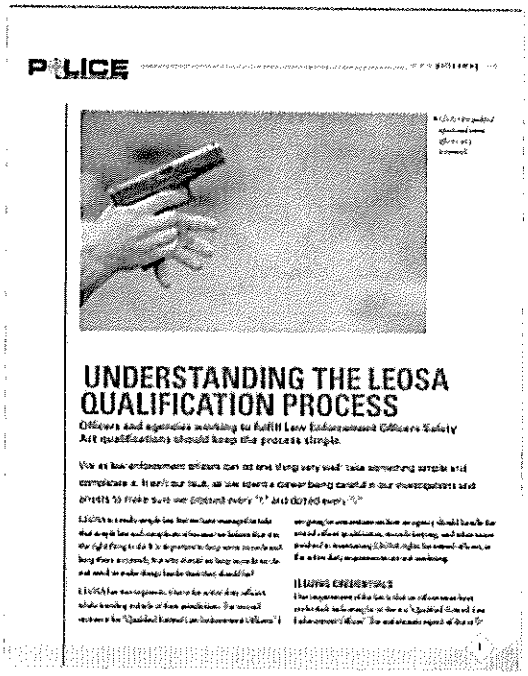
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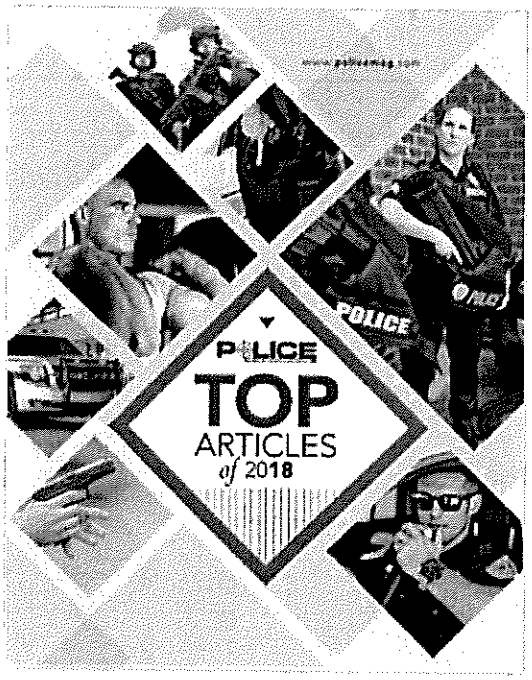

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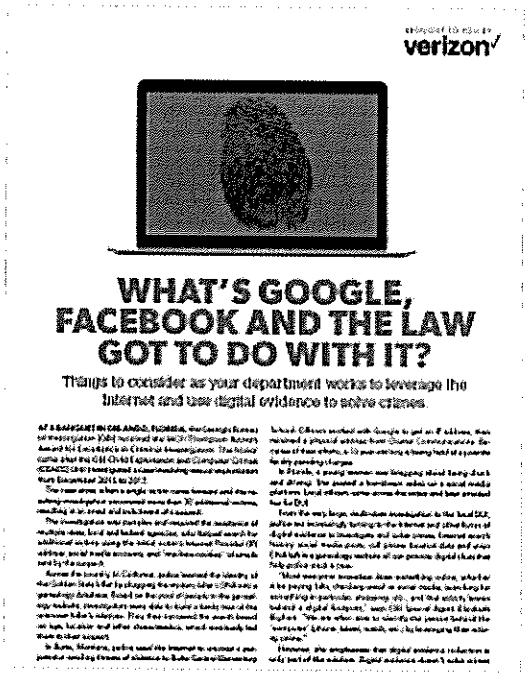

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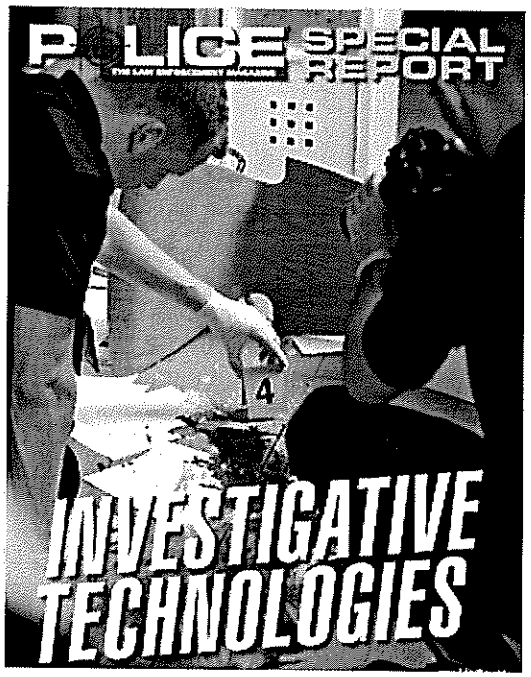

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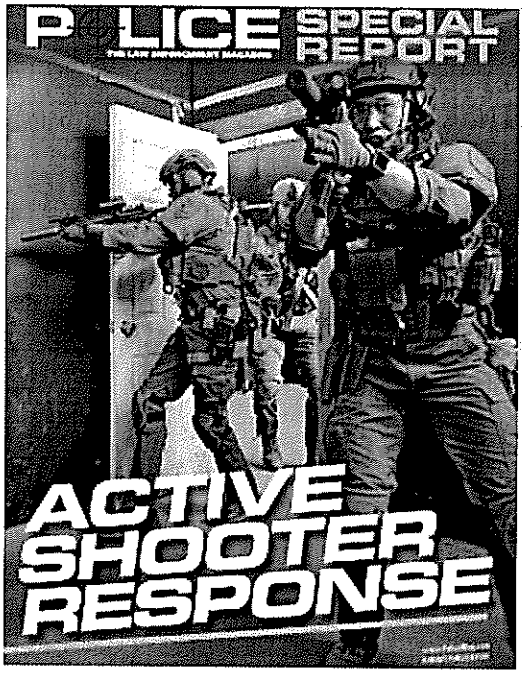

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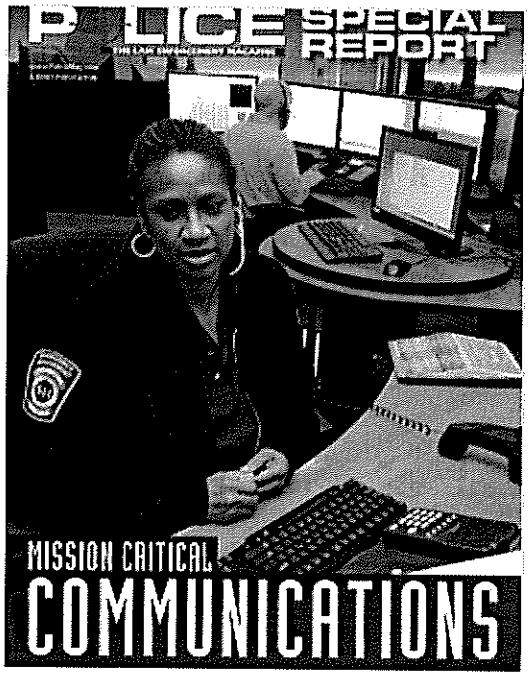

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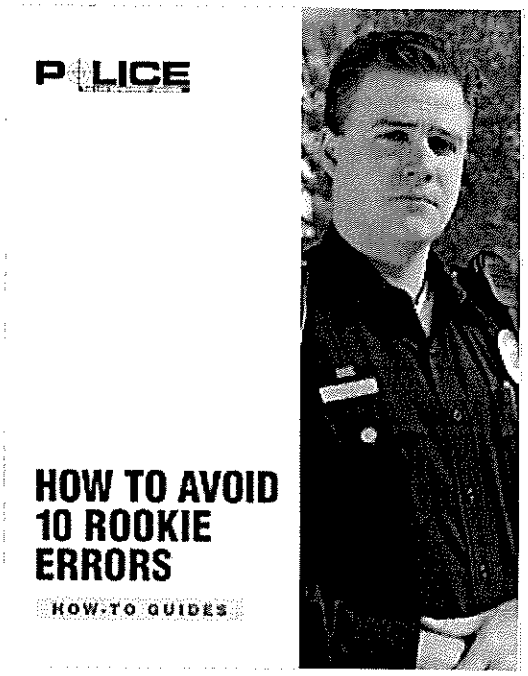

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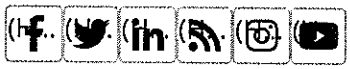

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HOSPITAL / SCHOOL / UNIVERSITY Campus Safety eNews
August 24, 2017

Colleges See Rise in Lawsuits from Students Accused of Sexual

Colleges See Rise in Lawsuits from Students Accused of Sexual Assault

A five-year study conducted by United Educators found that the average lawsuit filed against colleges by alleged sexual assault perpetrators costs $187,000.

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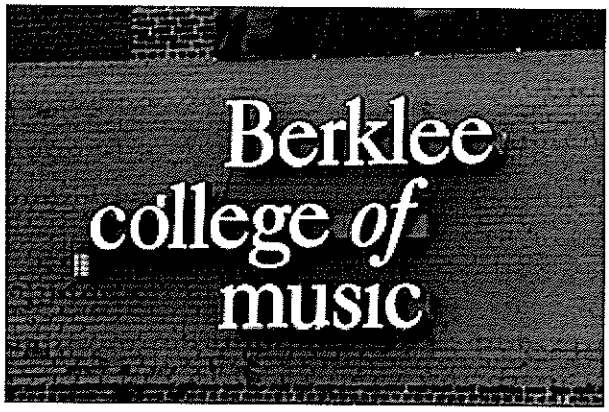

UF Cancels Richard Spencer Event, UC Berkeley to Host Ben Shapiro

UF President Kent Fuchs had previously emphasized that the event was not affiliated with the university or any student-run organizations.

Berklee College of Music Receives Backlash for Hiring Armed Officers

The school hired 12 officers and five supervisors who are trained police officers and were required to undergo additional firearm safety training.

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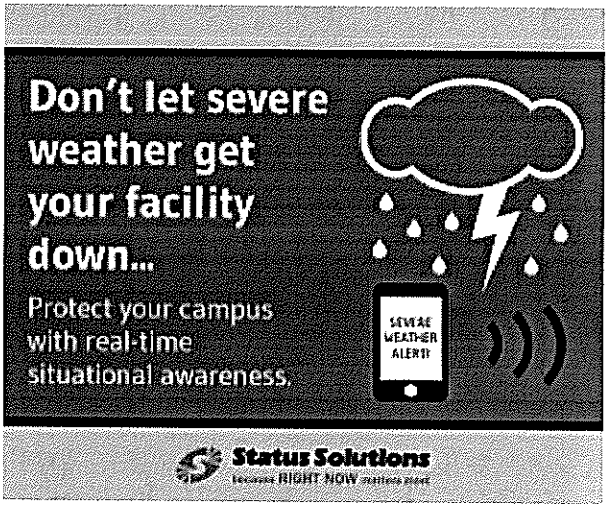

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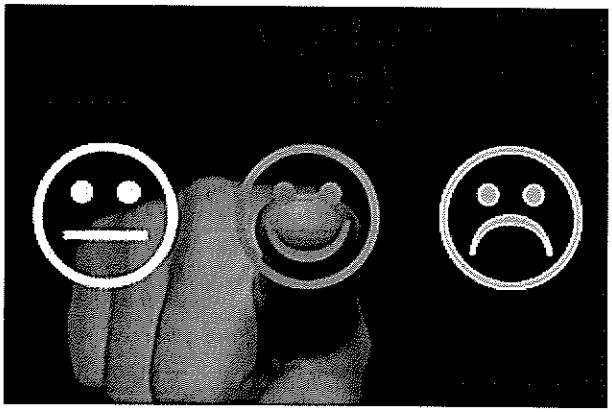
Expelled Michigan Tech Student Awarded $42K in Settlement

The man was expelled after a former student shared part of his presumably threatening social media post with the school's president and police chief.

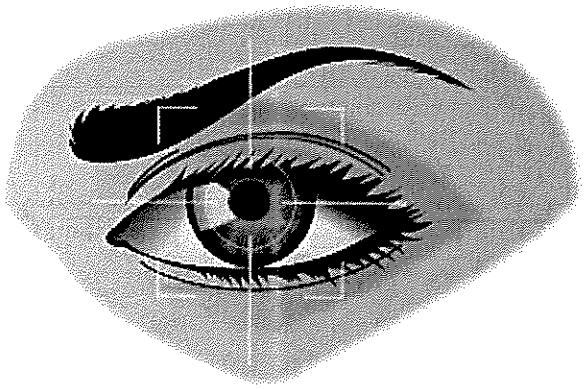
Understanding the Rise of Push-to-Talk Radios

Far from being a thing of the past, the push-to-talk radio market is expected to grow in coming years.



Responsible for Healthcare Security? Please Take Our Survey

Campus Safety magazine is conducting its Healthcare Security Survey covering staffing, budgets, site assessments,



These 18 Sci-Fi Movies May Have Inspired the Biometrics Industry

Star Trek, which aired as a show in 1966 and was made into its first movie in 1979, used biometrics such as voice ID, retina scan, and facial recognition.

training and more.

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→ Getting the Full Picture: 3D Crime Scene Scanning

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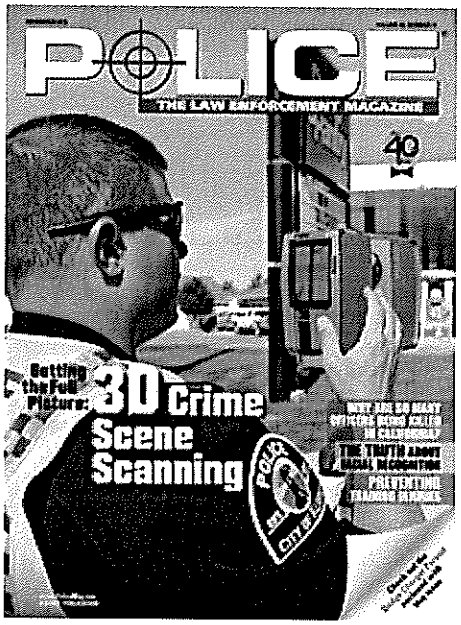

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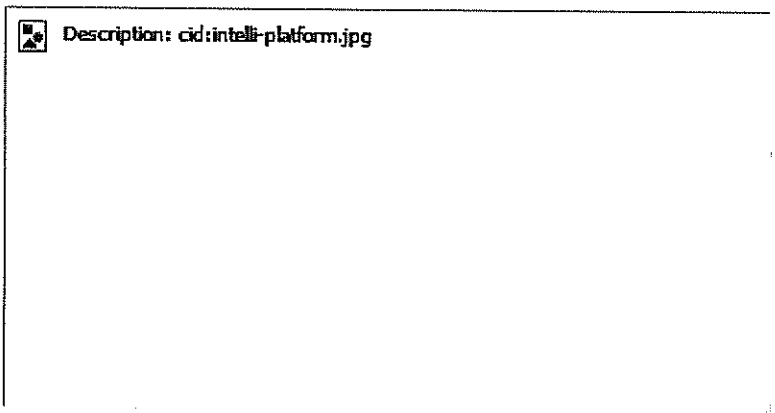
Craig,

On the heels of Wi-Fiber's **BEST OF SHOW award at CES**, our revolutionary **Intelli-Platform™** has garnered the attention of law enforcement offices as a **rapid Force Multiplier** at a fraction the expense of new officer hires and deployment! Police Departments across the country have become advocates of our approach and technology due to its nimble and open-source architecture. Our device, a straight replacement to traditional street lamps, incorporates **4K surveillance and high speed wireless connectivity**, which includes:

- Gunshot and glass-break sensors – Instant alerts with location accuracy
- 4K cameras with facial recognition & LPR – identification of perpetrators within minutes
- 911 hotline Two way speakers & PA System – Multiple communication methods
- Energy efficient dual LED Lamp with flash and color-change ability
- 4G network with wireless mesh Internet and Wi-fi connectivity

Modular design allows quick & easy maintenance and upgrades



Best of all, with built-in wireless connectivity, power is the only requirement. The **Intelli-Platform** can be installed on any street corner with no additional internet or power lines. In the **City Las Vegas,** the devices were even mounted to a park wall, delivering connectivity, surveillance, illumination, and IoT functionalities, while CIO Michael Sherwood also successfully tested Bosch weather sensors, an Emergency Call Box, and multiple smart-city visualization suites - all powered by our device!

Do you have a few moments to discuss how our core capabilities can ensure safer, smarter and more connected streets and neighborhoods in the most cost effective Force Multiplier available?

Eric Burgdorf
Wi-Fiber
917.208.9538
wi-fiber.us

Craig,

On the heels of Wi-Fiber's BEST OF SHOW award at CES, our revolutionary Intelli-Platform™ has garnered the attention of law enforcement offices as a rapid **Force Multiplier** at a fraction of the price of additional new hires. Our device, a straight replacement to traditional street lamps, incorporates high speed wireless connectivity and surveillance which includes:

- 4K cameras with facial recognition & LPR
- Microphones
- Two way speakers
- Gunshot and glass-break sensors

Best of all, with built in wireless connectivity, power is the only requirement - allowing your team to install our device on any and every street corner with no additional internet or power lines.

Do you have a few moments to discuss our core capabilities and the most cost effective force multiplier available?

Thanks & regards
Chris Maurer
Wi-Fiber LLC
Email: cmaurer@wi-fiber.us
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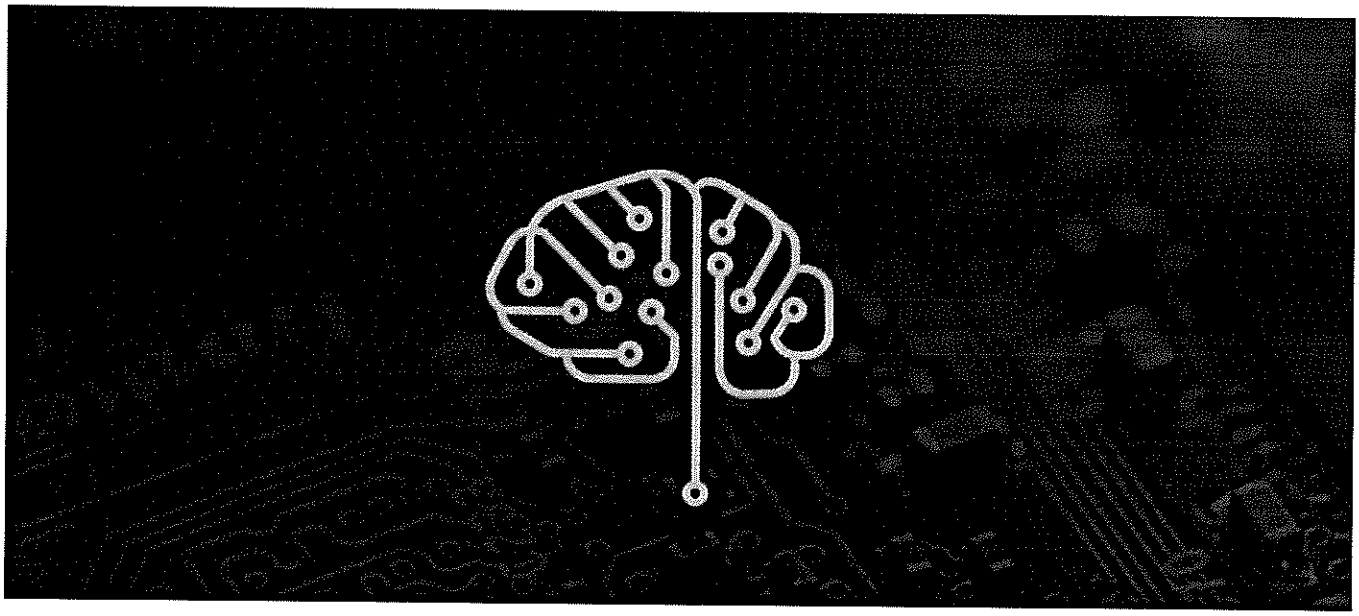

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A Quick Guide to Face Recognition with AI (#)

—Moji Solgi, Director of AI and Machine Learning

Published on Dec 7, 2018

Overview

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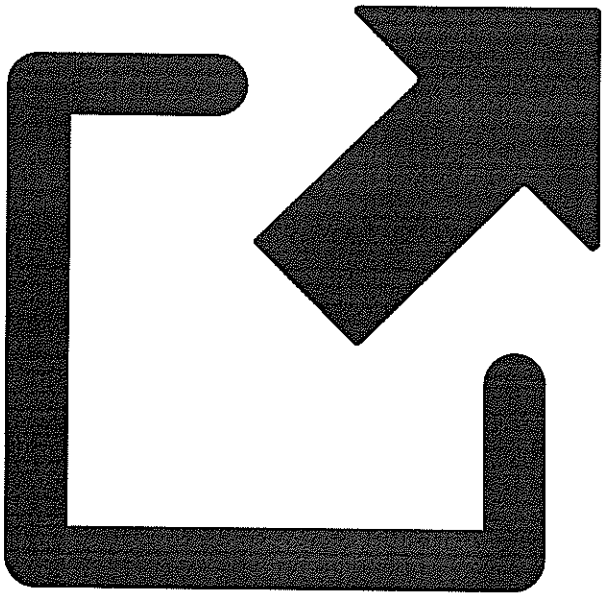
Microsoft's President, Brad Smith, recently published a set of principles  around regulating the development and use of face recognition technologies. As an organization that takes ethical AI seriously (//www.axon.com/info/ai-ethics), and as a close partner of Microsoft, we at Axon applaud Microsoft's thoughtfulness for taking this step.

Here we try to shed light on another dimension of the face recognition discussion that often gets overlooked. Face recognition is a broad term that lumps together a collection of technologies. This generalization can make conversations around the subject confusing. Below is an attempt to break down the components under the hood of what is referred to as facial/face recognition.

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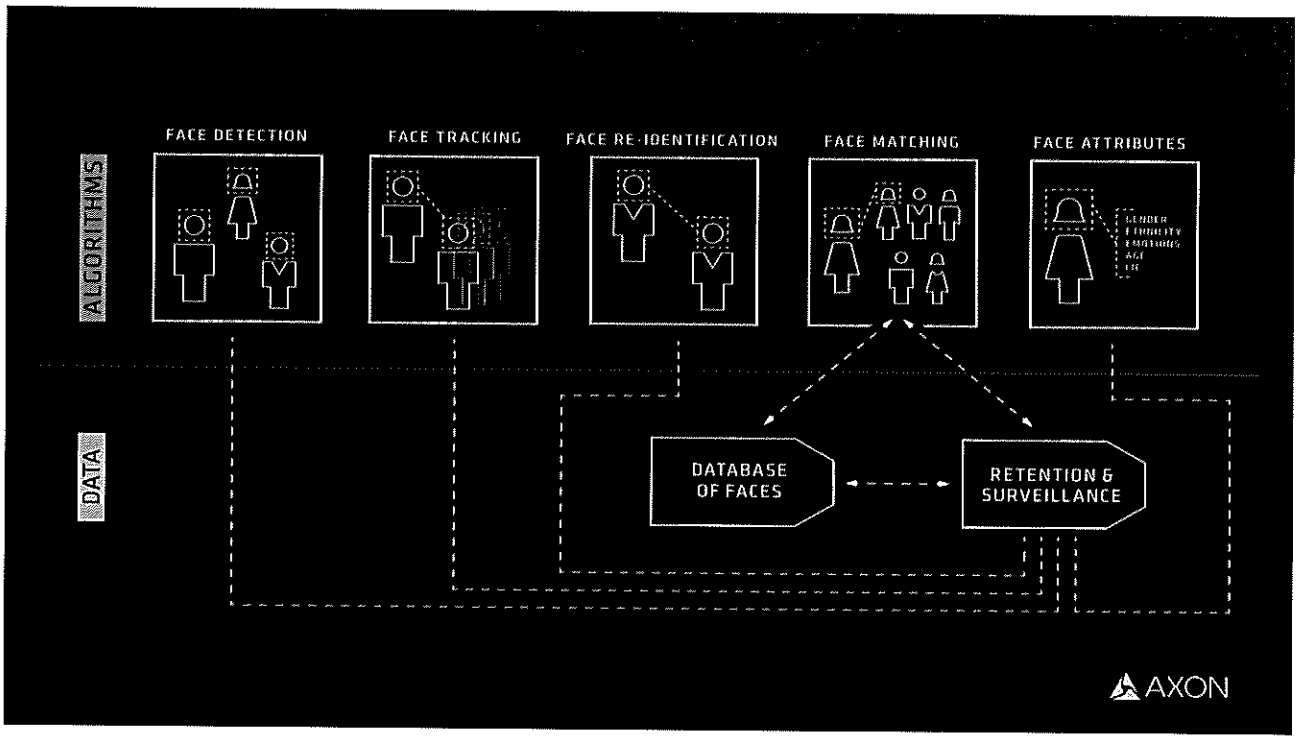

Algorithms vs. Data

AI algorithms involved in face recognition are not the true source of controversy around face recognition technology. It is *the combination of some face recognition algorithms (especially face matching and face attributes) and databases for retention and face search* that usually causes privacy and ethical concerns.

Algorithms

An algorithm is a sequence of steps executed by a computer that determines how to perform a task or solve a problem. Algorithms used for face recognition technologies (mostly machine-learned algorithms) can be one of the following:

**Note: that list below includes the major classes of face recognition technologies, but it is not comprehensive. For example, face verification and face alignment are excluded for simplicity.*

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Face Detection

In a given image, Face Detection finds faces and their locations. The Face Detection box in Fig. 1 highlights the detected faces in dotted boxes. Most commodity digital cameras, including mobile phones, run Face Detection to enhance image quality.

Face Tracking

In a given video, Face Tracking corresponds a face from one frame to the next consecutive frame. The Face Tracking box in Fig. 1 shows the face of one person being matched between two frames. This is useful for a police agency when they need to blur out an individual's face in a body-worn video that they want to release to the public. Note: tracking specific facial features (such as eyebrows, lips, etc.) is another area of research.

Face Re-identification

Face Re-identification is conceptually similar to Face Tracking, except the corresponding frames are not necessarily consecutive in the video. For example, if your face appears in the beginning of a video, and again at the end, Face Re-identification can recognize that it's the same face *without* identifying your face by comparing it to a database of faces.

Face Matching

Given a target face and a set of candidate faces, Face Matching finds which one of the candidate faces belongs to the target face. This is where algorithms meet databases for face search and retention. Some photo storage applications use Face Matching to tag a face that appears in various photos, and many smartphones use the technology to unlock your phone.

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Face Attributes

Given an image or a video of a face, Face Attributes extracts information such as gender, ethnicity, emotions, age, facial landmarks, etc.

Data

Data, in the case of face recognition, is a set of quantitative or qualitative values for reference. Commercial deployments of face recognition systems, such as systems you may see in airports around the world, generally reference a database of faces. These databases often include biographical information such as name, age, SSN, and more. In addition, the retention of the captured and/or extracted metadata in a database is a part of some of the face recognition systems.

What is Axon AI Doing

At Axon, we are currently working on algorithms for face detection, tracking, and re-identification. We use these algorithms for redaction in our Axon Evidence Redaction Studio, which helps our customers save time on the tedious task of obscuring and protecting an individual's identity in a given body or in-car camera video that is released to the public.

A few projects Axon AI is currently working on include:

- **Vehicle Recognition,** which is the ability to recognize the make, model, year, and color of vehicles on the road, to help law enforcement in scenarios that include finding missing children;
- **Speech Transcription,** which is automatically converting speech to text, and eventually automating record keeping and data entry for police officers, eliminating manual paperwork;

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- **Critical Event Recognition**, which is when AI can detect an officer's actions, such as a foot chase, that notifies other officers or the precinct that a critical event is unfolding.

We continue to discuss the development of these technologies with our AI & Policing Technology Ethics Board. The mission of this independent board is to provide expert guidance to Axon on the development of its AI products and services, paying particular attention to its impact on communities.

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Police Products › Investigation

How facial recognition solves cases in Indiana

The state fusion center helps local agencies develop leads and catch criminals using facial recognition from Vigilant Solutions

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Sponsored by Vigilant Solutions

By Tim Dees for PoliceOne BrandFocus

What if you could identify a suspect from a powerful network of databases instead of just a single database? The Indiana Intelligence Fusion Center uses facial recognition technology from Vigilant Solutions to assist local, state and federal agencies in generating leads to identify persons of interest and solve crimes, large and small.

Facial recognition technology from Vigilant Solutions helps agencies identify persons of interest (photo/Vigilant)

Sgt. Jeff Carmin has spent most of his career in the more traditional roles of two city police departments and the Indiana State Police, performing traffic and criminal investigations throughout the state. He is now the director of operations at the Indiana Intelligence Fusion Center (IIFC) in Indianapolis.

WHAT IS A FUSION CENTER?

Fusion centers were established across the United States in the wake of 9/11 to create an information-sharing base among law enforcement agencies, whether federal, state, local or tribal. State and major urban area fusion centers provide information and intelligence to local agencies, working alongside federal agencies like the Department of Homeland Security and the Federal Bureau of Investigation to help local law enforcement.

The IIFC, operated by the Indiana State Police, leverages resources that would often be too costly for local agencies, said Carmin. It draws information from roughly 60 different databases and 72 other fusion centers around the United States.

The center also uses Vigilant Solutions for automated license plate and facial recognition technologies. Carmin said the center has used other facial recognition programs but none as successfully as FaceSearch from Vigilant Solutions.

"If you sent me a photo and the guy was looking to the side or down, or wasn't looking straight on like a driver's license photo, we weren't getting good results," he said. "What made us go with Vigilant, besides the cost, was the user-friendliness of it."

MATCHING MUG SHOTS IN THE DATABASE

The IIFC's experience with the Vigilant Solutions' facial recognition system improved significantly after they uploaded mug shot photos stored in Indiana's automated fingerprint recognition system into the comparison gallery maintained by Vigilant Solutions.

"Since then, we've had outstanding results when an investigator requests something via our facial recognition system," Carmin said. "There are just a little under a million booking records."

IIFC can also run comparisons against Vigilant Solutions' master gallery, which contains records from various Vigilant users around the country. Other image databases are available for comparison as well.

"The Department of Homeland Security has a site with multi-state facial recognition. We also utilize that for 30 different states that can run it against their different databases, whatever they may be," said Carmin.

HOW FACIAL RECOGNITION TECHNOLOGY WORKS

Whereas humans recognize faces by an analog method, computers do it by digital mapping. By measuring and comparing distances and angles between facial landmarks – like pupils, the corners of the mouth, the tip of the nose, the lowermost aspect of the chin, etc. – a face can be expressed as a digital pattern the computer can compare with other patterns.

When a sample photo is submitted for analysis in a facial recognition system, the system locates records with a similar pattern in the database and returns them to the user as possible matches.

Local investigators wanting to make use of the IIFC's facial recognition system upload photos or video still frames for comparison. An IIFC analyst enhances the photo, if necessary, using the Vigilant Solutions software, and the comparison results are sent back to the investigator, along with a log of enhancements made to the specimen image.

Vigilant Solutions' FaceSearch system can correct for various problems, such as an off-axis angle or poor image quality.

Carmin said. "It will clear the photo up if it's a blurry photo, it will add eyes if the eyes need to be added and that type of thing."

SOLVING CASES BIG AND SMALL

Carmin recounts one success story where the IIFC assisted in a case where $7,000 in gift cards was stolen.

"The only photos available were two profile shots, both taken from video surveillance footage," he said. "Using the enhancement tools in the Vigilant software, an analyst was able to match the surveillance image to a booking photo of an inmate then housed in a county jail. The suspect was from Missouri and had no other ties to Indiana except that booking record. He also had outstanding arrest warrants."

Thanks to the image match from the Vigilant system, the suspect was identified at the county jail, served with the warrants and charged with the gift card theft.

"We've had a lot of success with this system," Carmin said. "It could be a homicide case, or it could range all the way down to a simple petty theft case."

Using a powerful technology to solve a shoplifting case might seem like overkill, but it illustrates how making a tool like facial recognition available to all law enforcement can improve satisfaction for all concerned (the gift card thief being a likely exception).

About the Author

Tim Dees is a retired police officer and the former editor of two major law enforcement websites who writes and consults on technology applications in criminal justice. He can be reached at tim@timdees.com.

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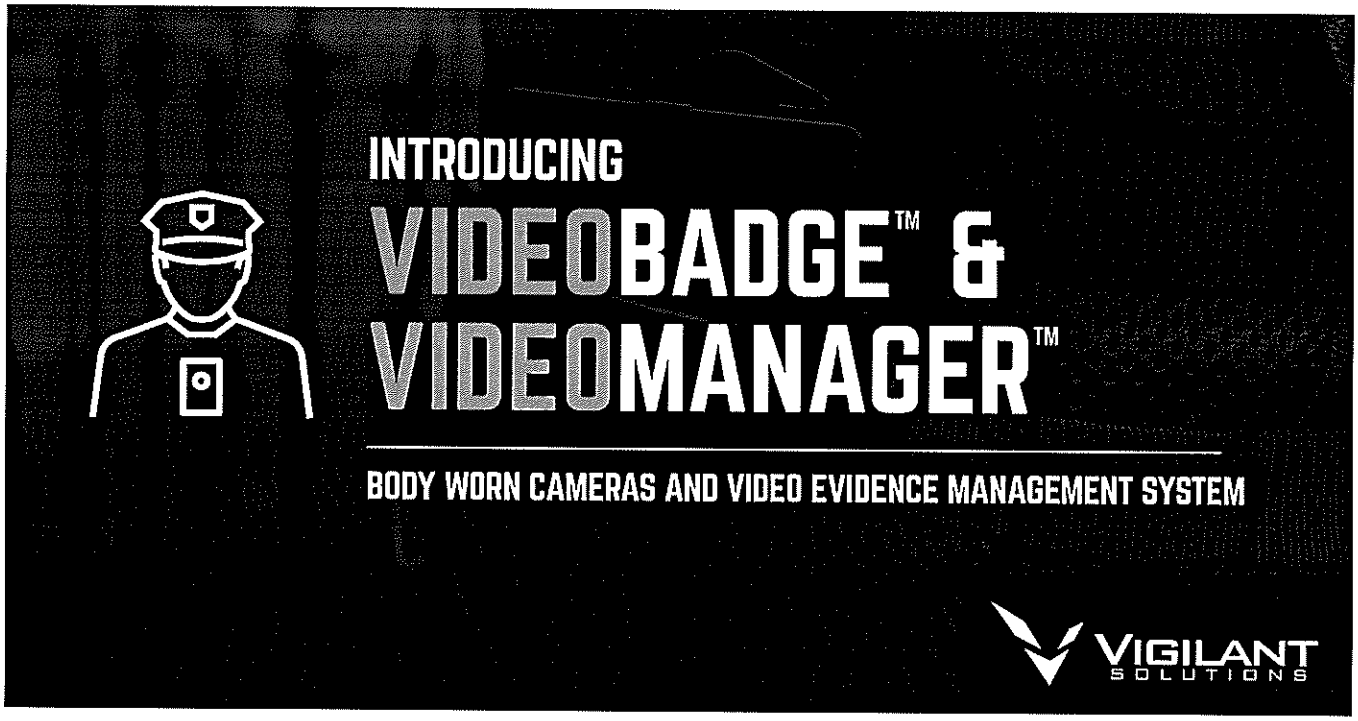

VIGILANT SOLUTIONS ACQUIRES EDESIX, LTD.

Dear Dorothy,

We are very excited to announce today that Vigilant Solutions has acquired Edesix Ltd, the number one manufacturer of body worn cameras in the United Kingdom.

Founded in Edinburgh in 2002, Edesix has a global footprint of customers from the UK and the United States to Abu Dhabi and Australia in industries ranging from law enforcement and airport security to fire safety, rail safety, university security and healthcare. Its body worn video system – VideoBadge™ – employs footage encryption and a wire-free design that make it extremely versatile for various types of users and applications. Similarly, its VideoManager™ software solutions enable web-based viewing and editing of incidents, and preparation of evidence packages. The

software is designed to control and manage cameras, their footage and footage from other sources in a highly efficient and secure manner. Additionally, its in-car cameras will seamlessly integrate with our suite of technologies.

So, what does this mean for our customers?

1. Anyone who works with Vigilant Solutions knows that we are passionate about the fact that our solutions help to keep communities and law enforcement safe. And, by providing law enforcement with body worn and in-car cameras, we are able to achieve both goals by aiding the law enforcement community in your efforts to promote transparency in your engagements with the public.
2. Law enforcement agencies no longer need to keep their ALPR, facial recognition, ballistics analysis, gun crime and body worn/in-car camera images siloed in multiple systems. All the images you capture can easily be integrated into our investigative platform, so we can provide law enforcement with a single platform for securely managing images all in one place.
3. There is a new player in the body worn camera market. And, that means increased competition for law enforcement's dollars, which translates to competitive pricing and continued innovation in technology development.

If you are interested in learning more about Edesix products, please reach out to your Account Manager or contact us at Sales@VigilantSolutions.com.

Be Safe. Be Smart. Be Vigilant.

Shawn Smith
Founder and President, Vigilant Solutions

What new products are you most looking forward to learning more about? **We want to hear from you!** Complete this two question survey and let us know!

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Meet VIC, the Vigilant Investigative Center™.

VIC, an AI-driven investigative platform, aims to help law enforcement generate leads, accelerate investigations and ultimately help solve crimes and keep communities safe.

Through VIC, you can access our facial recognition, license plate recognition, ballistics analysis, crime mapping and video evidence management technologies in one place.

It's time to talk to VIC.

Request a Demo!

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Did you know that you can access all of our solutions from one platform? Vigilant Investigative Center (VIC) is an investigative platform that houses all of our solutions – ALPR, facial recognition, ballistics analysis, gun crime mapping and more – in one place.

Interested in learning more about VIC? Join us for our webinar, Come Meet VIC, hosted by retired NYPD Lieutenant Commander, Tom Joyce. See firsthand how VIC can take your investigations to another level!

DATE: Thurs, November 8th
TIME: 1500 - 1600 EDT

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Police Products > Police Facial Recognition

Policing Matters
with Policing Matters Podcast

The limitations and potential of facial recognition software

Police are using the software more and more to identify wanted criminals, missing people and suspected terrorists spotted on video

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Download this week's episode on iTunes, SoundCloud or via RSS feed

Last year, rights groups and even Amazon employees and stockholders sought to stop that company from providing its Rekognition software to law enforcement agencies. By all accounts, that effort has failed, as police are using the software—as well as solutions from other vendors—more and more to identify wanted criminals, missing people and suspected terrorists spotted on video. In this podcast segment, Jim and Doug discuss the use of facial recognition technology, its limitations, and its potential for the future.

LEARN MORE

What police departments should consider before implementing facial recognition software

Facial recognition technology and a 'reasonable expectation of privacy'

legal, privacy concerns to consider before implementing this scanning technology

How facial recognition solves cases in Indiana

Police Video Guide: The emerging tech, training and tactics shaping law enforcement

About the author

Talking the beat with leaders and experts on the PoliceOne police podcast.

In the Policing Matters Podcast, PoliceOne Senior Contributor **Doug Wyllie** and San Francisco Deputy Chief **Jim Dudley** (ret.) discuss current news, offer advice, thoughts, tips and laughs for officers. Have a topic you want discussed on the show? Send your comments and suggestions to policingmatters@policeone.com, and tune in every Friday for a new episode. Policing Matters is available for download on SoundCloud and via RSS feed.

Tags > Technology

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ABOUT SOLUTIONS CONTACT

Join us for Happy Hour at IACP 2018 in Orlando, FL!

We will be hosting happy hours on both Sunday, October 7th and Monday, October 8th. Drop by our booth to grab a drink and some food, and also learn more about license plate recognition, facial recognition, ballistics analysis, gun crime mapping, and some of our new product offerings!

Where: Vigilant's Booth ***#1139***

When: Sunday, October 7th and Monday, October 8th at 1500-1630hrs

What: Cold drinks, yummy food and good company

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Are You the Agency We're Looking For?

Has your agency been using technology in an innovative way to keep communities safe? We want to know! Nominate yourself for the Vigilant Communities Award, which recognizes agencies who are using LPR, facial recognition, ballistics analysis and/or firearms mapping in an innovative way.

Nominations are currently open until September 7, 2018 at 11:59PM PST. You may nominate your agency or someone else. Winners will receive a $2,000 donation to their fallen officers fund.

Nominate your agency today!

LEARN MORE

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Feds Use Facial Recognition to Catch 2nd Person Trying to Enter U.S. Illegally

In the last three weeks, the technology at Washington's Dulles International Airport has been used to catch two imposters trying to illegally enter the U.S.

SEP. 12, 2018

In the last three weeks, the technology at Washington's Dulles International Airport has been used to catch two imposters trying to illegally enter the U.S.

FACIAL RECOGNITION

San Francisco Could Become First in Nation to Ban Use of Facial Recognition by Police

THE 5 STEP PROCESS BEHIND EVERY FACIAL RECOGNITION SEARCH

In the past year, facial recognition use by public safety has seen significant improvements in matching accuracy. Although the confidence level in the technology is rising, there are still many best practices they are missing out on such as human involvement, a critical deciding factor of whether returned leads are viable or not.

Join Director of Client Relations for Vigilant Solutions and Retired NYPD Detective, Roger Rodriguez as he explains the 5 Steps of the Facial Recognition Investigative Workflow. See firsthand how agencies nationwide are generating positive results with FaceSearch, Vigilant's facial recognition solution.

During Roger's tenure as a lead detective in the New York City Police Department's first dedicated facial recognition unit, he acquired the skills and first-hand experience in best practices for facial recognition in public safety. The success of this unit was driven by establishing a defined workflow which helped develop strong investigative leads and close cases faster.

REGISTER NOW

WHEN | Thursday, September 13, 2018 | 3:00 PM - 4:00 PM EDT

HOSTS | **Roger Rodriguez**
Director of Client Relations, Vigilant Solutions
Detective, NYPD (RET.)

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NASRO
National Association of School Resource Officers

Email Update

Join us for a Webinar: Tuesday, August 28th, 3:00-4:00 pm EST

Greetings NASRO Members,

With the rising number of school shootings over the past couple of years, schools are looking at alternative technology solutions to help bolster security. While there are many resources out there that can potentially bring down the numbers, school officials are struggling with balancing the need to protect their students and teachers and creating an environment that feels welcoming and inherently safe.

Join Sam Rabadi, Retired SAC ATF and Roger Rodriguez, Retired NYPD Detective as they explain how schools can take a multi-pronged approach to ensure public safety by using Vigilant`s Safe Campus Solution. This solution combines fixed and mobile deployments of license place readers (LPR) and facial recognition which can help identify an unknown subject and disrupt or mitigate any threat taking a path towards violence.

Vigilant`s Safe Campus Solution will:
- Provide a safer and more secure learning environment
- Increase officer safety
- Assist in deploying proven crime prevention strategies
- Allow you to acquire very cost-efficient services

Register today to see how you can add two additional layers of security to your existing multi-layered comprehensive security platform!

When: Tuesday, August 28, 2018, 3:00-4:00 PM EST

Hosts: Sam Rabadi, Director, Business Development, Vigilant Solutions (Special Agent in Charge, ATF (RET.)) and Roger Rodriguez, Director of Client Relations, Vigilant Solutions (NYPD Detective (RET.))

Click here to register for the webinar!

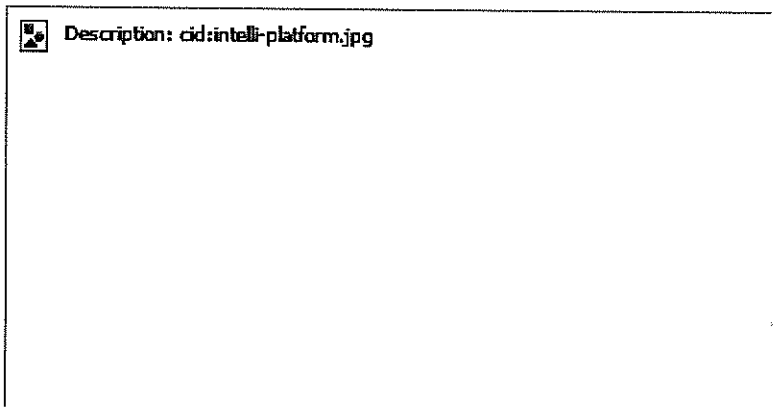
To unsubscribe from all NASRO.org Email Update messages, click on this link:
https://www.nasro.org/tc/mailing/mailing_unsubscribe.php?id=54b4r5i536g4h4r543t5t5r4n4m5h5s5m4z5j4v5e464s2n5m446
You can also write to us at:
National Association of School Resource Officers
2020 Valleydale Road, Suite 207A, Hoover, AL 35244

Dorothy,

On the heels of Wi-Fiber's **BEST OF SHOW award at CES**, our revolutionary **Intelli-Platform™** has garnered the attention of law enforcement offices as a **rapid Force Multiplier** at a fraction the expense of new officer hires and deployment! Police Departments across the country have become advocates of our approach and technology due to its nimble and open-source architecture. Our device, a straight replacement to traditional street lamps, incorporates **4K surveillance and high speed wireless connectivity**, which includes:

- Gunshot and glass-break sensors – Instant alerts with location accuracy
- 4K cameras with facial recognition & LPR – identification of perpetrators within minutes
- 911 hotline Two way speakers & PA System – Multiple communication methods
- Energy efficient dual LED Lamp with flash and color-change ability
- 4G network with wireless mesh Internet and Wi-fi connectivity

Modular design allows quick & easy maintenance and upgrades



Best of all, with built-in wireless connectivity, power is the only requirement. The **Intelli-Platform** can be installed on any street corner with no additional internet or power lines. In the **City Las Vegas,** the devices were even mounted to a park wall, delivering connectivity, surveillance, illumination, and IoT functionalities, while CIO Michael Sherwood also successfully tested Bosch weather sensors, an Emergency Call Box, and multiple smart-city visualization suites - all powered by our device!

Do you have a few moments to discuss how our core capabilities can ensure safer, smarter and more connected streets and neighborhoods in the most cost effective Force Multiplier available?

Eric Burgdorf
Wi-Fiber
917.208.9538
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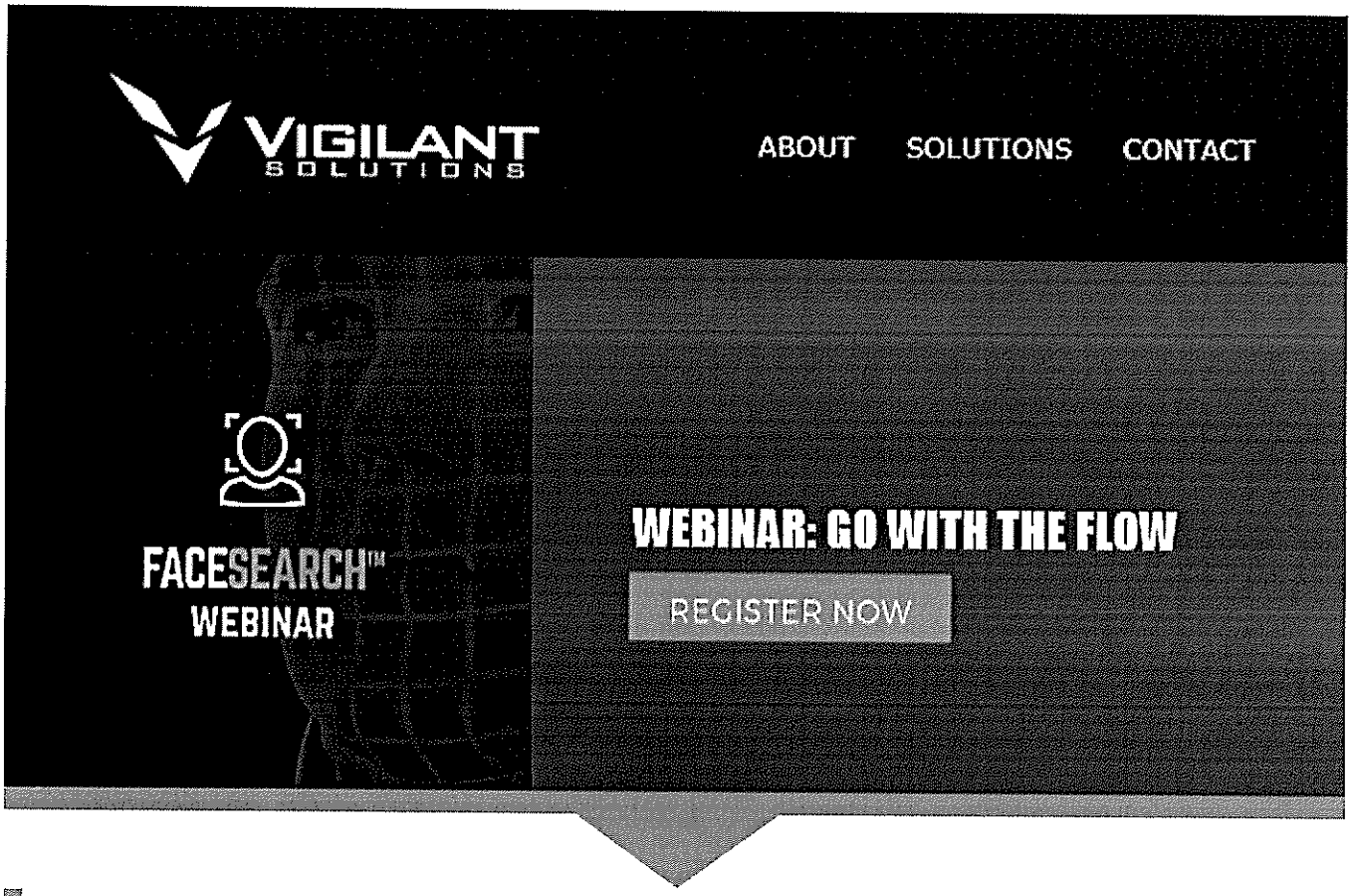

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Webinar-Go With the Flow: The 5 Step Process Behind Every Facial Recognition Search

During Roger's tenure as a lead detective in the New York City Police Department's first dedicated facial recognition unit, he acquired the skills and first-hand experience in best practices for facial recognition in public safety. The success of this unit was driven by establishing a defined workflow which helped develop strong investigative leads and close cases faster.

Join Roger Rodriguez, Director of Client Relations for Vigilant Solutions, as he explains the 5 Steps of the Facial Recognition Investigative Workflow. See firsthand how agencies nationwide are generating positive results with FaceSearch, Vigilant's facial recognition solution.

Register for our webinar: Go With the Flow,Â and we will explain why the facial recognition process still needs human involvement.Â

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Thursday, September 13th, 2018 | 3:00 PM - 4:00 PM EDT

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Director of Client Relations, Vigilant Solutions

Detective, NYPD (RET.)

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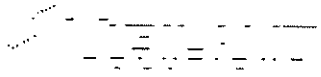

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Orlando police plan to extend test of Amazon facial-recognition software

The high-tech system, formally called "Rekognition," is touted as able to pick a person out of a crowd and track their movements in real time

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By Ryan Gillespie
Orlando Sentinel

ORLANDO, Fla. — The Orlando Police Department plans to continue its test of Amazon's facial recognition software, despite outcry from civil rights groups concerned that the technology could be abused.

A memo informed Orlando Mayor Buddy Dyer and the city council of the decision Friday, explaining more time was needed to make a "thoughtful, precise and comprehensive recommendation" to Dyer on whether or not the city should eventually purchase the technology.

The free pilot used the software on eight city cameras — including five within the Orlando police headquarters and three more downtown. The initial "proof of concept" expired last month and the city plans to sit down with Amazon to put together the parameters of the latest test but said it will operate similarly to the pilot.

"When we were approached we saw the value in how we can use it to get some really violent criminals off the street," OPD Deputy Chief Mark Canty said.

The high-tech system, formally called "Rekognition," is touted as able to pick a person out of a crowd and track their movements in real time. Orlando police officials have said such software could be used in finding murder suspects or stopping violent attacks before they happen.

But it's not being used for investigative purposes during the pilot, the memo states.

officers who volunteered to participate, including Canty. That will continue, officials confirmed Monday.

More time will allow the city to learn if the software works with the three types of cameras Orlando uses, and also how accurate and reliable it is. They've experimented with officers wearing hats as well as different facial hair, Orlando Chief Information Officer Rosa Akhtarkhavari said.

When Rekognition is activated, the footage flows from the city's data center. If the camera recognizes a person who moves into its reach, the software is supposed to trigger an alert to authorities.

Akhtarkhavari said Amazon's sytem receives footage from the city when Rekognition is activated, but it cannot retain the footage.

"It just goes in and gets inspected and moves away," Akhtarkhavari said. "[Amazon] gets the stream, but they do not retain the stream."

The system isn't always activated, and only is when officials are running tests, she said.

Use of the program has been criticized by the American Civil Liberties Union, who feared the system can be used to violate civil liberties and civil rights to be used to target immigrants and political activists.

Last month the ACLU and other local groups including the Orange County Classroom Teachers Association, the Farmworker Association of Florida and the United Faculty of Florida at UCF sent a letter to police Chief John Mina urging the department to stop its test.

"The software has the potential of being used for discriminatory immigration enforcement, monitoring individuals who attend protests and engage in other non-violent activities, or disproportionately surveilling minority communities and residents who have committed no crimes," the ACLU letter dated June 21 reads.

Canty said the department has been aware of concerns of the public, and vowed OPD would be responsible when using the software.

"We absolutely listen to the public because I think, particularly for police, we have to have an excellent relationship with the public," Canty said. "When we take on a project like this, we know it's going to be controversial...If it works we're going to set parameters in place where it's not going to be abused. That's the time where we would have maybe some public input in our policies and listen to their concerns."

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McClatchy-Tribune News Service

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VIGILANT SOLUTIONS ACQUISITION ANNOUNCEMENT

Dear Dorothy,

We are very excited to announce today that Vigilant Solutions has acquired the assets of ShotCaller Global Inc., developer of GunOps™ and DNAOps™ investigative solutions for law enforcement. This acquisition enables us to provide the law enforcement community with firearm forensic mapping and DNA crime mapping technology that complement our existing suite of automated license plate reader (ALPR) data, facial recognition technology and ballistics analysis solutions.

GunOps and DNAOps are web-based interactive investigation tools. GunOps allows law enforcement investigators and analysts to enter, visualize and access information about firearm-related crimes, forensic test results and armed criminals. DNAOps allows law enforcement to enter, visualize and access information about crimes where DNA has been recovered from crime scenes, using web-based mapping applications.

This means Vigilant Solutions is now well-positioned to help the law enforcement community to combat the growing epidemic of gun crime. Specifically, our enhanced suite of offerings enables us to provide law enforcement the ability to help identify the G.E.T. – geography, event and time – of gun crime.

Anyone who works with or for Vigilant Solutions knows that we are passionate about the fact that our solutions help to keep communities and law enforcement safe. This acquisition is exciting because it not only allows us to continue to achieve that goal, but also enables us to expand our capabilities and help law enforcement to eradicate violent gun crime.

If you are interested in learning more about GunOps, please contact us at BeVigilant@VigilantSolutions.com.

Be Safe. Be Smart. Be Vigilant.

Shawn Smith
Founder and President

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In the past year, facial recognition use by public safety has seen significant improvements in matching accuracy. Although the confidence level in the technology is rising, there are still many best practices they are missing out on such as human involvement, a critical deciding factor of whether returned leads are viable or not. In this webinar, see how Director of Client Relations for Vigilant Solutions and Retired NYPD Detective, Roger Rodriguez uses Vigilant's FaceSearch to generate investigative leads from images that normally do not meet the criteria for facial recognition searching after vetting and performing specific enhancements.

Miss the first installment? We've opened registration for another round. Register for our webinar: **Man v. Machine** and we will explain why the facial recognition process still needs human involvement.

REGISTER NOW

WHEN	Thursday, June 14, 2018 | 3:00 PM - 4:00 PM EDT
HOSTS	**Roger Rodriguez** Director of Client Relations, Vigilant Solutions Detective, NYPD (RET.)

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Webinar: Facial Recognition and Cyber Crimes

According to the FBI, the threat from cyber crimes is serious – and growing. And it's not just corporations that are at risk from this threat. Citizens in your communities could be targets of fraudsters and identity thieves, or children could be targeted by online predators.

In this webinar, Retired NYPD Detective, Roger Rodriguez will share how to analyze images for cyber-crime investigations such as prostitution rings, identity theft, fraud, and child exploitation. In many cases, these investigations included poor quality images obtained from crime victims, social media, or other online sources.

Topics Include:

- Cyber crime overview
- Using facial recognition in cyber crime investigations
- Image editing techniques for CCTV or social media images
- Use case examples

When: Friday, May 19th 3:00 PM EST / 2:00 PM CST

Register Now→

Space is limited, please Register early to save your spot.

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- 4K cameras with facial recognition & LPR
- Microphones
- Two way speakers
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Police Products > Police Report Writing Software

4 ways speech recognition technology improves police efficiency, safety

Paperwork is crucial, but there's a reason they call it a necessary evil – it takes too much time and can keep us away from one of our most important tasks

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By Ed Davis, Nuance Communications

My career in law enforcement spans many ranks and several decades, and while there have been many changes as the result of advances in police technology, there are aspects of the job that remain consistent.

I think I speak for law enforcement professionals across the U.S. when I say that we would rather be catching criminals than doing the less glamorous side of our work that they don't show on "Law and Order" – creating countless incident reports when working a case. Police paperwork is crucial, but there's a reason they call it a *necessary evil*. It takes too much time and can keep us away from one of our most important tasks – protecting the citizens we serve.

According to a national survey of police departments, almost 40% of survey respondents said they can spend 3-4 hours each day on incident reporting and other documentation tasks. That translates to a quarter of the day spent on paperwork alone, rather than policing and protecting our communities.

Tools like speech recognition technology allow officers to dictate documents rather than manually typing them by hand, providing a better way to tackle the heavy documentation demands that plague officers nationwide.

Several benefits speech recognition technologies bring to policing include:

1. INCREASES IN COMMUNITY PRESENCE

Completing incident reports through voice dictation is drastically shorter than the time it would take an officer to create paperwork manually. Technology available today can be up to 99% accurate so

their desks buried in reporting means more time spent being visible in the community.

With community visibility at the crux of modern-day policing, it's not surprising that in addition to better training and equipment for their officers, departments are embracing solutions that can allow officers to be more visible in the community.

2. ENHANCED TRANSPARENCY

Transparency in policing is why reporting accuracy is so crucial to what we do – everything we say and do can make a difference. Because officers are dictating in the moment, everything is fresh in their minds and more detailed and reliable than if that same information had to be pulled from memory hours later.

Advanced speech technology is able to learn language unique to the trade, so an officer can speak freely and be confident in the system's ability to pick up on and understand traditional police jargon. The accuracy of today's speech technology holds an officer accountable in his or her reporting, which further builds police transparency and trust.

3. VEHICLE ERGONOMICS

Next generation police vehicles are delivering new designs focused on safety, technology, performance and handling improvements. Safety, ergonomics and efficiency should always be taken into account, especially when it comes to adopting new technology in a small space. Police cars are changing and problems associated with hand, wrist and back pain from typing can be solved with voice dictation.

4. OFFICER SAFETY

The reliance on keyboard-driven, in-car systems, such as the MDT, has impacted officer safety. While cramped conditions in patrol cars can cause minor discomfort using the MDT, or worse – lower back pain – the "heads-down" approach is the major concern. With dictation officers can use their voice and stay "heads-up" while conducting common tasks like license plate lookups, enabling them to stay more alert, present and aware of their surroundings.

Many government law enforcement agencies, including the FBI and the military, have already selected speech recognition technology to keep pace with ever-increasing reporting loads. Speech recognition can be used to streamline reporting processes by allowing officers to dictate reports into the department's Record Management System (RMS) from a desktop computer at the station, an in-car system (such as a mobile data terminal or MDT), or even a mobile device.

Adopting solutions like speech recognition technology to streamline incident reporting will help officers prioritize toward higher engagement tasks, like spending more time on patrol and keeping communities safe.

Ed Davis has been in law enforcement for more than 35 years and is a security consultant to Nuance Communications. He served as the 40th Police Commissioner of the city of Boston from December 2006 until October 2013. Prior to that, Davis was the superintendent of the Lowell Police Department, a position he held for 12 years and one he rose to after starting out as a patrol officer in one.

Tags › Officer Safety • Patrol Issues • Vehicle Incidents and Issues

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In the past year, facial recognition use by public safety has seen significant improvements in matching accuracy. Although the confidence level in the technology is rising, there are still many best practices they are missing out on such as human involvement, a critical deciding factor of whether returned leads are viable or not. In this webinar, see how Director of Client Relations for Vigilant Solutions and Retired NYPD Detective, Roger Rodriguez uses Vigilant's FaceSearch to generate investigative leads from images that normally do not meet the criteria for facial recognition searching after vetting and performing specific enhancements.

Register for our webinar: Man v. Machine, and we will explain why the facial recognition process still needs human involvement.

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WHEN	Thursday, April 19, 2018 | 3:00 PM - 4:00 PM EDT
HOSTS	**Roger Rodriguez** Director of Client Relations, Vigilant Solutions Detective, NYPD (RET.)

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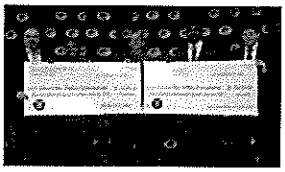

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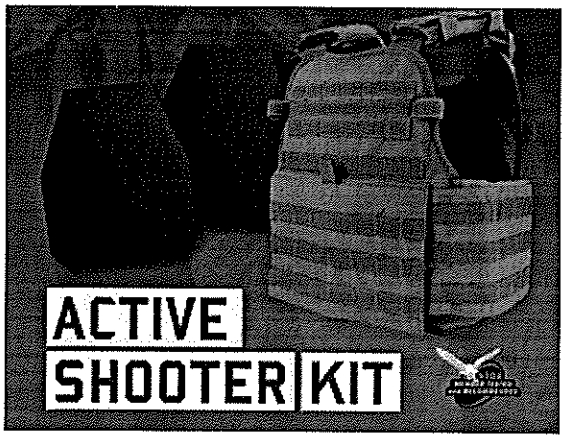

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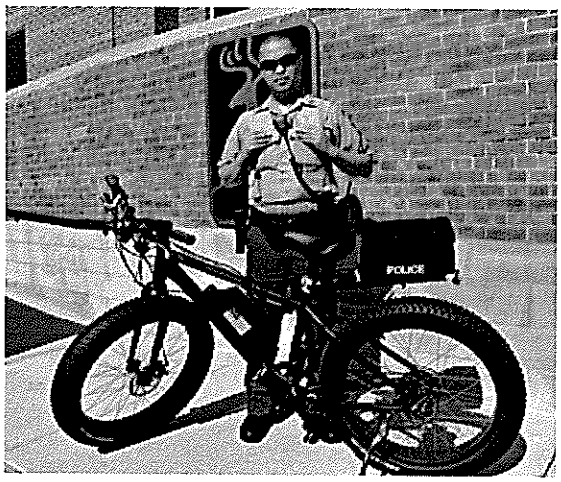

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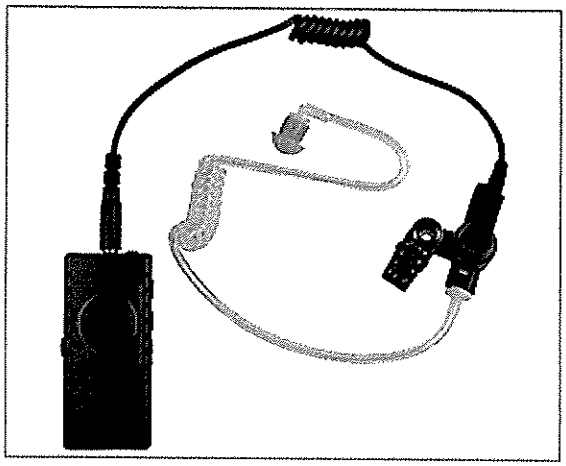

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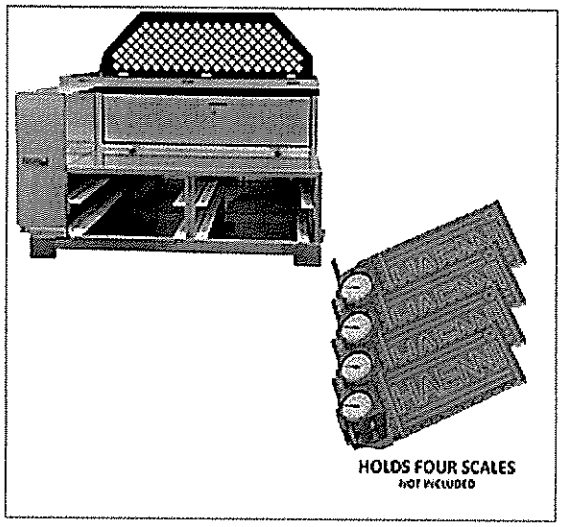

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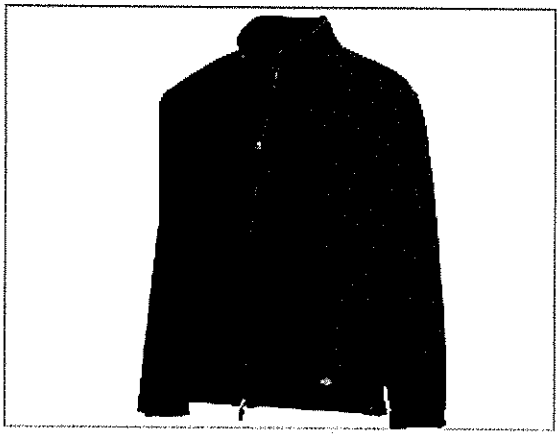
OPS Public Safety's all-new CVE Wheel/Axle Scales Unit is specifically designed for Commercial Vehicle Enforcement. Engineered for the Ford Explorer, it holds four scales, gear and rifles. Manufactured of heavy gauge aluminum with available features that include a 10"'H X 35"'W X 20"'D Storage drawer with heavy-duty 200 lbs. ball bearing slides, a 36 inch-deep drivers side storage compartment, an anti-skid top surface with perimeter cargo rail, durable anti-skid rubber in drawer bottom and side compartment.

includes USB charger. Clips securely almost anywhere for hands-free wireless communications. For more information, visit **www.pryme.com/promo/lo**.

The detachable scale compartment has Teflon slide rails. To access the spare tire, simply unfasten and remove the scale compartment. The base and brackets utilize OEM bolt holes that eliminates drilling for installation (optional barrier available). For more information or a demo visit **www.OPSPublicSafety.com**.

Vigilant Solutions FaceSearch Facial Recognition Solution

FaceSearch is an easy-to-use facial recognition solution that results in more investigative leads. Developed by Vigilant to deliver a functional, scalable and advanced facial recognition solution that any investigator can use, FaceSearch is available as a PC-based or web-based solution, and is hosted in the cloud and available on Android and Apple OS mobile devices. For more information, visit **www.vigilantsolutions.com**.



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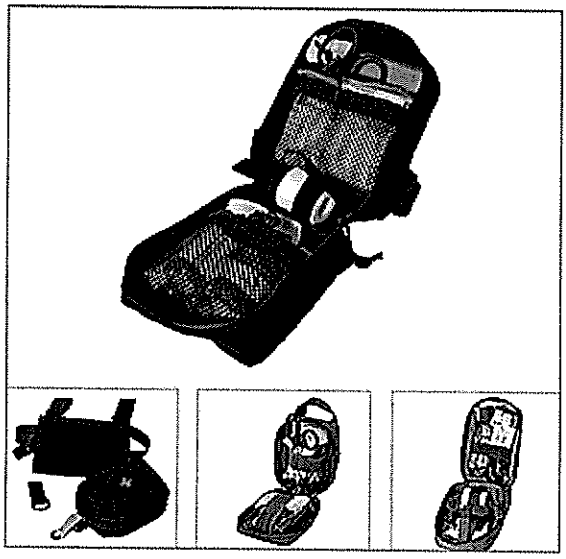

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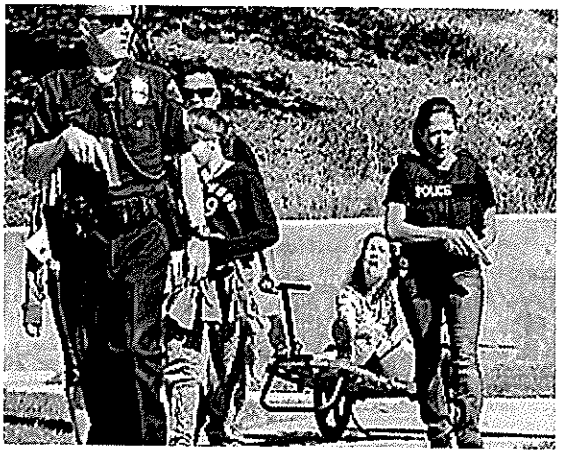

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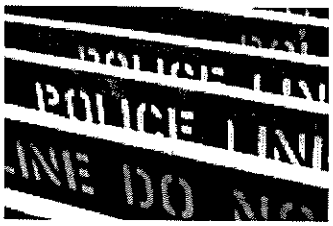
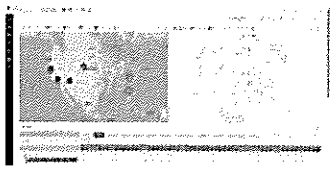


Human Trafficking: Tools and Methods for Successful Cyber Investigations

February 28 at 2:00 pm EST

The Internet has changed how human traffickers operate, enabling them to advertise their victims easily, anonymously, and to a large audience of buyers through various dating and relationship sites and various classified advertising platforms. This webinar, produced in partnership between Marinus Analytics and LexisNexis Risk Solutions, will show the best tools and methods to make use of this huge amount of data to find victims and traffickers successfully. It will cover how the data from LexisNexis law enforcement solutions like Accurint Virtual Crime Center in conjunction with Traffic Jam's artificial intelligence tools such as facial recognition through FaceSearch, can help rescue victims and complete searches in seconds. Join this webinar to gain tips and tools to make the most out of your time, to effectively find victims of human trafficking and bring their exploiters to justice.

Register Today



Introduction the Accurint Virtual Crime Center by LexisNexis

March 29 at 3:00 pm EST

Law enforcement experts will introduce how Accurint Virtual Crime Center is the next generation solution for investigations and nationwide data sharing. This solution helps your agency to solve more crimes and discover hard to find information by linking 10,000 public records sources to national law enforcement data to find non-obvious connections and generate leads with one search.

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Webinar Schedule

Apr 25, 2018 2:00 PM EST	Introducing the Accurint Virtual Crime Center by LexisNexis
May 23, 2018 1:00 PM EST	Making Connections: Linking Crimes at Local, Regional, and National Levels
Jun 26, 2018 2:00 PM EST	Introducing the Accurint Virtual Crime Center by LexisNexis
Jul 26, 2018 1:00 PM EST	Introducing the Accurint Virtual Crime Center by LexisNexis
Sep 26, 2018 3:00 pm	Introducing the Accurint Virtual Crime Center by LexisNexis

For more information on Accurint Virtural Crime Center, please click here.

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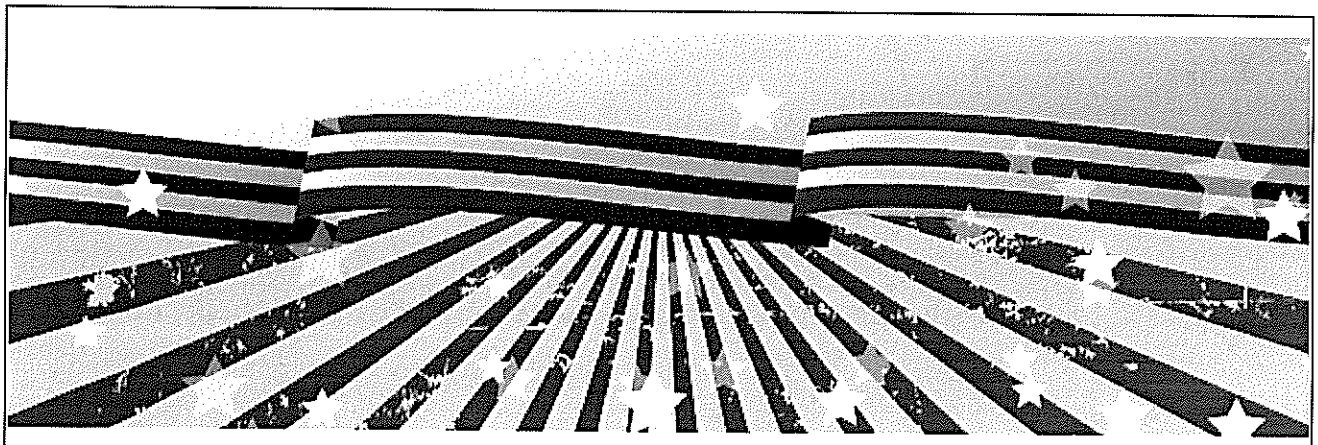

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- Facial Recognition Policy Challenges
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Memorial Fund on Feb. 7

2.
Privacy Summit on afternoon of Feb. 8, morning of Feb. 9

See the Agenda

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Be Advised...

with Doug Wyllie, PoliceOne Senior Contributor

How AI software could monitor real-time camera feeds to detect criminal behavior

Using AI and facial recognition software for real-time crime reporting is the next logical progression in how police are already using existing technology

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Editor's Note:

Few forces are impacting law enforcement like video. **Policing in the Video Age**, P1's yearlong special editorial focus on video in law enforcement, aims to address all facets of the topic with expanded analysis and reporting.

In the final installment of this four-part signature coverage effort, we take a look at the future of video in policing. Click here to learn more about the project.

Also be sure to check out our latest PoliceOne Digital Edition – **2018 Police Video Guide: The emerging tech, training and tactics shaping law enforcement** – in which we explore how departments can best utilize emerging video technologies to enhance police officer safety and improve operational efficiencies. Download the free guide here.

Companies like Facebook and Google have been working on integrating artificial intelligence (AI) with facial recognition technology for years, and the capability is now rapidly migrating from social media to private security and video surveillance. Surely, it will soon also be employed by law enforcement.

HOW AI COULD ASSIST POLICE OFFICERS

With the advances of AI and machine learning, the storylines of films like Enemy of the State and Minority Report begin to look a lot less like fiction. (Photo/Pixabay)

AI-driven facial recognition software will allow police departments to gather video from feeds from municipal cameras, privately owned cameras and even bystanders' mobile phone video.

In fact, this technological capability is not just coming – it's here. Although not yet widespread in the West, China has a vast network of video surveillance cameras – reportedly more than 20 million cameras – "in what is believed to be the world's most advanced surveillance system," according to the Daily Mail. That system scans for aberrant or unusual behavior such as public intoxication or attempted theft.

While not as large in scope or scale as the Chinese deployment, the Detroit News reported recently that the Detroit Police Department "will soon integrate facial recognition software into the department's Project Green Light video crime monitoring program." The system will monitor video feeds from participating gas stations, convenience stores and other business.

Further, an automated system called Alsight was installed in Boston after the 2013 marathon bombing. The software monitors camera feeds in real time and alerts police if it detects criminal behavior.

And companies like Motorola Solutions, Axon, and others have implemented AI into their body-worn camera offerings.

Those private companies stop short of talking about facial recognition – insisting that their systems will scan for things and not people. In the search for a missing child for example, the software will search for the clothing, not the child's face.

But it does not require a tremendous leap of imagination to envision facial recognition software – running on AI – eventually looking for individuals based on previous police booking photos, or even a driver's license picture.

Using AI and facial recognition software for real-time crime reporting is simply the next logical progression in how police are already using existing technology.

For years, investigators used machine learning to examine archived surveillance video for clues (and ultimately, evidence for trial) in criminal investigations. They input the face of the person they are interested in, and the software combs the archived video footage for a match.

"The need has become overwhelming," said Bud Levin, an expert in AI at the FBI's Training Division. "Everybody and every place seem to have one or more image-recording devices, from modern cameras and phones to relatively ancient CCTV devices. BWC images alone can swamp police departments and the offices of prosecutors if viewing must be done manually."

Richard Myers, executive director of the Major Cities Chiefs Association, believes that the role of AI with any public safety camera systems – whether body worn or other – will surely evolve as the algorithms get more robust and facial recognition becomes more reliable.

"Technology already exists in the private sector security where AI helps stores identify behavior patterns that predict an imminent theft from a store shelf via CCTV," Myers said. "Logically, some of that behavior pattern analysis AI will eventually be integrated into public safety video systems. It is probably more likely that this will first appear in 'fixed' CCTV systems, as the dynamic stream of video from body-worn systems will require even more AI rapid analysis."

Myers added that just as Auto License Plate Reader technology provides immediate feedback when a wanted vehicle passes a camera equipped with ALPR, facial recognition software integrated with body-worn cameras may provide police officers with immediate information about who they're dealing with.

"There will no doubt be significant legal debate about privacy rights and the like," Myers said. "It will be important for public safety advocates to assert that there is no expectation of privacy in a public place, nor when engaged in a direct interaction with a uniformed police officer. This is a highly nuanced issue, however, as the facial recognition could work inside a private space where an officer isn't yet identified as such."

COULD AI SOFTWARE PROVIDE REAL-TIME CRIME ALERTS?

Will AI and facial-recognition software eventually be used to alert police about crimes in progress or the sighting of a wanted fugitive in real time – essentially bypassing the 911 call-in system of crime reporting?

Levin says it will, but that it will be a while before we get there.

"One problem will be false positives and another will be writing AI so that it understands the complexities and absurdities of the Constitution, our laws and policies. Just as we will be reducing the

need for patrol officers as autonomous vehicles gradually but inevitably supplant driver-operated vehicles, AI will be used to reduce demand for investigative and patrol manpower."

There's a potentially slippery slope here – the term "mission creep" comes to mind.

At the outset, the intention of such initiatives may be to catch the next active shooter or radicalized Islamist terrorists before they are able to unleash their attack. And most Americans would probably be okay with that – fear dramatically reduces concern about civil liberties, after all.

But as is the case in China, the software will do what you tell it to do, and the Chinese have told it to look for much more benign offenses than mass killing – public intoxication, while a nuisance, is not nearly as serious as international terrorism.

However, with the advances of AI and machine learning, the storylines of films like Enemy of the State and Minority Report begin to look a lot less like fiction than at the time those movies premiered in theaters.

ADDRESSING PRIVACY CONCERNS AS ARTIFICIAL INTELLIGENCE EXPANDS IN SCALE

Privacy rights proponents say that implementing AI in video surveillance on such a broad scale essentially assumes that everyone is a potential criminal. And privacy concerns are not limited to Hollywood producers and privacy rights groups.

In 2014, the U.S. Department of Justice warned that "the use of facial recognition and BWCs may pose serious risks to public privacy. Agencies that explore this integration and other new technologies should proceed very cautiously and should consult with legal counsel and other relevant stakeholders."

Furthermore – and perhaps most important – facial recognition software is simply not yet accurate enough to use to search for fugitives in real time.

While facial recognition is much more successful on a small scale right now, researchers are working on developing massive-scale AI solutions.

For instance, the MegaFace Challenge – maintained by the University of Washington – "is the world's first competition aimed at evaluating and improving the performance of face recognition algorithms at the million person scale," according to UW.

Ira Kemelmacher-Shlizerman – the lead investigator on MegaFace – told the Daily Mail, "We need to test facial recognition on a planetary scale to enable practical applications. Testing on a larger scale lets you discover the flaws and successes of recognition algorithms."

HOW WILL AI EVOLVE?

As to the question of when this all may come to fruition, Myers points out that some futurists have expressed that AI's evolution has progressed slower than originally forecast but that, like all

and marketplace demand.

"With major police vendors now implementing AI into their systems, it may accelerate the pace of its evolution," Myers said, "I would think AI and behavior pattern analysis could be integrated into public safety CCTV systems within five years or less, and facial recognition with BWCs could also occur within that time frame. As with most technology advances, however, the limiting factors won't be the technology, but the human interface, ease of use and user awareness, and the legal debate and limitations."

"Dedicated video is only part of the AI story," said Levin. "Consider the IoT. Consider clouds full of data – warehouses ripe for the tapping and AI extracting. Consider also that – well into the digital information age – we cling desperately to industrial-age concepts such as privacy, confidentiality, anonymity and secrecy. 'Them cows done left the barn.' Sooner or later, we'll realize that for most of what we want to hide the cost of keeping them hidden is way beyond the value."

The Singularity – the point at which computers and machines become more intelligent than the combined intelligence of all living humans – hasn't happened yet, but with the rapid acceleration of AI and machine learning, it's apparent that the prediction proffered by Professor Vernor Steffen Vinge in the early 1990s is very likely to come true.

And it will *all* be recorded on video.

About the author

Doug Wyllie is senior contributor for PoliceOne, providing police training content on a wide range of topics and trends affecting the law enforcement community.

Doug hosts the PoliceOne's Policing Matters podcast, and is the host for PoliceOne Video interviews.

Doug is the 2014 Western Publishing Association "Maggie Award" winner for Best Regularly Featured Digital Edition Column, and has authored more than 1,000 articles and tactical tips. Doug is a member of International Law Enforcement Educators and Trainers Association (ILEETA), an Associate Member of the California Peace Officers' Association (CPOA), and a member of the Public Safety Writers Association (PSWA).

Contact Doug at doug.wyllie@policeone.com.

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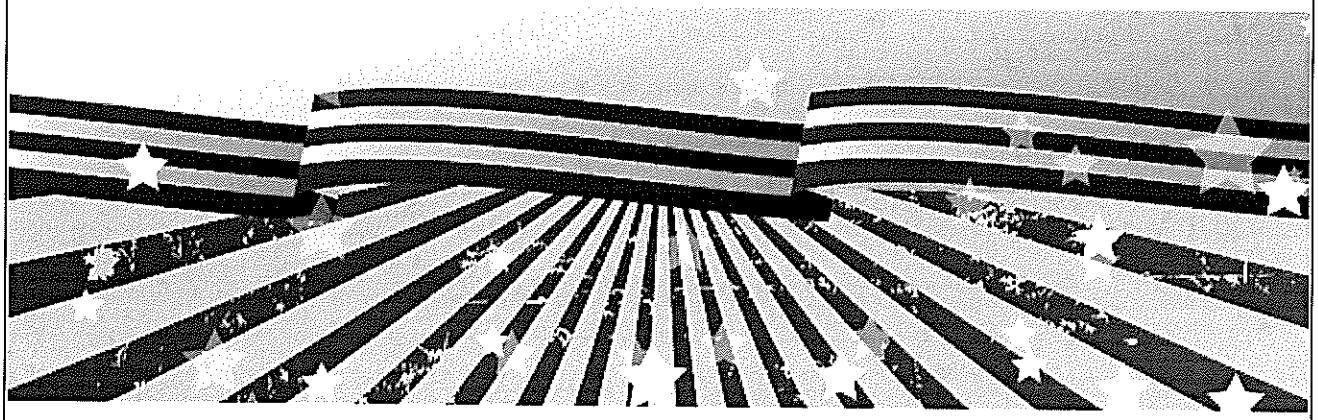

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Cop Gumbo
with Val Van Brocklin

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If citizens willingly permit widespread use of FRT outside of law enforcement, you could argue they no longer have any reasonable expectation of facial privacy

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In this Friday, Nov. 3, 2017, file photo, an Apple employee demonstrates the facial recognition feature of the new iPhone X at the Apple Union Square store in San Francisco. (AP Photo/Eric Risberg, File)

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EXPANDING COMMERCIAL USES OF FACIAL RECOGNITION SOFTWARE

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Like the FBI's NGI program, the commercial sector's use of FRT is getting pushback. In 2014, the U.S. Department of Commerce held talks about whether and how commercial FRT should be regulated. The negotiations included representatives from consumer-advocacy groups and the tech industry. User privacy groups, including Electronic Frontier Foundation and the Consumer Federation of America, walked out. The industry and its lobbyists, they said, wouldn't even admit that users might want to consent to facial-recognition software so it was no use participating in the talks.

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About the author

As a state and federal prosecutor, Val's trial work was featured on ABC'S PRIMETIME LIVE, Discovery Channel's Justice Files, in USA Today, The National Enquirer and REDBOOK. Described by Calibre Press as "the indisputable master of entertrainment," Val is now an international law enforcement trainer and writer. She's had hundreds of articles published online and in print. She appears in person and on TV, radio, and video productions. When she's not working, Val can be found flying her airplane with her retriever, a shotgun, a fly rod, and high aspirations. Visit Val at www.valvanbrocklin.com and info@valvanbrocklin.com

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Be Advised...

with Doug Wyllie, PoliceOne Senior Contributor

How AI software could monitor real-time camera feeds to detect criminal behavior

Using AI and facial recognition software for real-time crime reporting is the next logical progression in how police are already using existing technology

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Companies like Facebook and Google have been working on integrating artificial intelligence (AI) with facial recognition technology for years, and the capability is now rapidly migrating from social media to private security and video surveillance. Surely, it will soon also be employed by law enforcement.

HOW AI COULD ASSIST POLICE OFFICERS

With the advances of AI and machine learning, the storylines of films like Enemy of the State and Minority Report begin to look a lot less like fiction. (Photo/Pixabay)

AI-driven facial recognition software will allow police departments to gather video from feeds from municipal cameras, privately owned cameras and even bystanders' mobile phone video.

In fact, this technological capability is not just coming – it's here. Although not yet widespread in the West, China has a vast network of video surveillance cameras – reportedly more than 20 million cameras – "in what is believed to be the world's most advanced surveillance system," according to the Daily Mail. That system scans for aberrant or unusual behavior such as public intoxication or attempted theft.

While not as large in scope or scale as the Chinese deployment, the Detroit News reported recently that the Detroit Police Department "will soon integrate facial recognition software into the department's Project Green Light video crime monitoring program." The system will monitor video feeds from participating gas stations, convenience stores and other business.

Further, an automated system called Alsight was installed in Boston after the 2013 marathon bombing. The software monitors camera feeds in real time and alerts police if it detects criminal behavior.

And companies like Motorola Solutions, Axon, and others have implemented AI into their body-worn camera offerings.

Those private companies stop short of talking about facial recognition – insisting that their systems will scan for things and not people. In the search for a missing child for example, the software will search for the clothing, not the child's face.

But it does not require a tremendous leap of imagination to envision facial recognition software – running on AI – eventually looking for individuals based on previous police booking photos, or even a driver's license picture.

Using AI and facial recognition software for real-time crime reporting is simply the next logical progression in how police are already using existing technology.

For years, investigators used machine learning to examine archived surveillance video for clues (and ultimately, evidence for trial) in criminal investigations. They input the face of the person they are interested in, and the software combs the archived video footage for a match.

"The need has become overwhelming," said Bud Levin, an expert in AI at the FBI's Training Division. "Everybody and every place seem to have one or more image-recording devices, from modern cameras and phones to relatively ancient CCTV devices. BWC images alone can swamp police departments and the offices of prosecutors if viewing must be done manually."

Richard Myers, executive director of the Major Cities Chiefs Association, believes that the role of AI with any public safety camera systems – whether body worn or other – will surely evolve as the algorithms get more robust and facial recognition becomes more reliable.

"Technology already exists in the private sector security where AI helps stores identify behavior patterns that predict an imminent theft from a store shelf via CCTV," Myers said. "Logically, some of that behavior pattern analysis AI will eventually be integrated into public safety video systems. It is probably more likely that this will first appear in 'fixed' CCTV systems, as the dynamic stream of video from body-worn systems will require even more AI rapid analysis."

Myers added that just as Auto License Plate Reader technology provides immediate feedback when a wanted vehicle passes a camera equipped with ALPR, facial recognition software integrated with body-worn cameras may provide police officers with immediate information about who they're dealing with.

"There will no doubt be significant legal debate about privacy rights and the like," Myers said. "It will be important for public safety advocates to assert that there is no expectation of privacy in a public place, nor when engaged in a direct interaction with a uniformed police officer. This is a highly nuanced issue, however, as the facial recognition could work inside a private space where an officer isn't yet identified as such."

COULD AI SOFTWARE PROVIDE REAL-TIME CRIME ALERTS?

Will AI and facial-recognition software eventually be used to alert police about crimes in progress or the sighting of a wanted fugitive in real time – essentially bypassing the 911 call-in system of crime reporting?

Levin says it will, but that it will be a while before we get there.

"One problem will be false positives and another will be writing AI so that it understands the complexities and absurdities of the Constitution, our laws and policies. Just as we will be reducing the

need for patrol officers as autonomous vehicles gradually but inevitably supplant driver-operated vehicles, AI will be used to reduce demand for investigative and patrol manpower."

There's a potentially slippery slope here – the term "mission creep" comes to mind.

At the outset, the intention of such initiatives may be to catch the next active shooter or radicalized Islamist terrorists before they are able to unleash their attack. And most Americans would probably be okay with that – fear dramatically reduces concern about civil liberties, after all.

But as is the case in China, the software will do what you tell it to do, and the Chinese have told it to look for much more benign offenses than mass killing – public intoxication, while a nuisance, is not nearly as serious as international terrorism.

However, with the advances of AI and machine learning, the storylines of films like Enemy of the State and Minority Report begin to look a lot less like fiction than at the time those movies premiered in theaters.

ADDRESSING PRIVACY CONCERNS AS ARTIFICIAL INTELLIGENCE EXPANDS IN SCALE

Privacy rights proponents say that implementing AI in video surveillance on such a broad scale essentially assumes that everyone is a potential criminal. And privacy concerns are not limited to Hollywood producers and privacy rights groups.

In 2014, the U.S. Department of Justice warned that "the use of facial recognition and BWCs may pose serious risks to public privacy. Agencies that explore this integration and other new technologies should proceed very cautiously and should consult with legal counsel and other relevant stakeholders."

Furthermore – and perhaps most important – facial recognition software is simply not yet accurate enough to use to search for fugitives in real time.

While facial recognition is much more successful on a small scale right now, researchers are working on developing massive-scale AI solutions.

For instance, the MegaFace Challenge – maintained by the University of Washington – "is the world's first competition aimed at evaluating and improving the performance of face recognition algorithms at the million person scale," according to UW.

Ira Kemelmacher-Shlizerman – the lead investigator on MegaFace – told the Daily Mail, "We need to test facial recognition on a planetary scale to enable practical applications. Testing on a larger scale lets you discover the flaws and successes of recognition algorithms."

HOW WILL AI EVOLVE?

As to the question of when this all may come to fruition, Myers points out that some futurists have expressed that AI's evolution has progressed slower than originally forecast but that, like all

and marketplace demand.

"With major police vendors now implementing AI into their systems, it may accelerate the pace of its evolution," Myers said, "I would think AI and behavior pattern analysis could be integrated into public safety CCTV systems within five years or less, and facial recognition with BWCs could also occur within that time frame. As with most technology advances, however, the limiting factors won't be the technology, but the human interface, ease of use and user awareness, and the legal debate and limitations."

"Dedicated video is only part of the AI story," said Levin. "Consider the IoT. Consider clouds full of data – warehouses ripe for the tapping and AI extracting. Consider also that – well into the digital information age – we cling desperately to industrial-age concepts such as privacy, confidentiality, anonymity and secrecy. 'Them cows done left the barn.' Sooner or later, we'll realize that for most of what we want to hide the cost of keeping them hidden is way beyond the value."

The Singularity – the point at which computers and machines become more intelligent than the combined intelligence of all living humans – hasn't happened yet, but with the rapid acceleration of AI and machine learning, it's apparent that the prediction proffered by Professor Vernor Steffen Vinge in the early 1990s is very likely to come true.

And it will *all* be recorded on video.

About the author

Doug Wyllie is senior contributor for PoliceOne, providing police training content on a wide range of topics and trends affecting the law enforcement community.

Doug hosts the PoliceOne's Policing Matters podcast, and is the host for PoliceOne Video interviews.

Doug is the 2014 Western Publishing Association "Maggie Award" winner for Best Regularly Featured Digital Edition Column, and has authored more than 1,000 articles and tactical tips. Doug is a member of International Law Enforcement Educators and Trainers Association (ILEETA), an Associate Member of the California Peace Officers' Association (CPOA), and a member of the Public Safety Writers Association (PSWA).

Contact Doug at doug.wyllie@policeone.com.

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USING FACIAL RECOGNITION IN INVESTIGATIONS THAT INVOLVE CHILDREN

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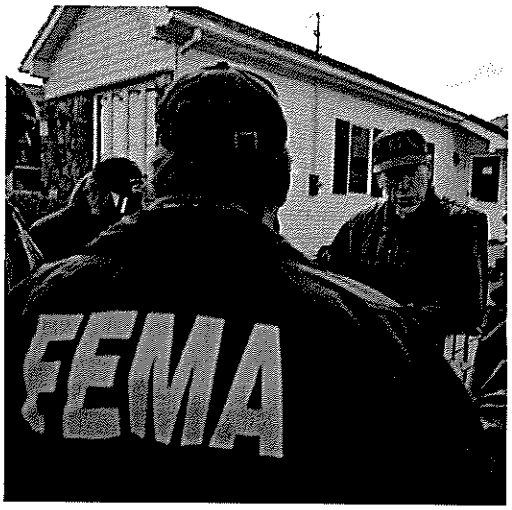

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Nominations for Vigilant Solutions' Best in Force Award Honoring Law Enforcement Innovation Now Open

Award recognizes innovative use of license plate recognition (LPR) and/or facial recognition technology; Winner to receive $5,000 donation to Fallen Officer Fund or another fund of choice

VIGILANT SOLUTIONS, A PART OF MOTOROLA SOLUTIONS INC. — JULY 7, 2017

LIVERMORE, Calif. (June 29, 2017) – Vigilant Solutions is now accepting nominations for the Best in Force award, an annual award recognizing law enforcement's innovative use of license plate recognition (LPR) and/or facial recognition (FR) technology. The winning agency will be announced in October at the annual International Association of Chiefs of Police (IACP) Conference and will receive a $5,000 donation to the agency's Fallen Officer Fund or another fund of their choice.

"Every day we hear from agencies the stories of how they are leveraging LPR and facial recognition to keep communities safe and solve crimes. We hear stories of loved ones found, crimes prevented, and lives saved. This award recognizes those agencies that leave no stone unturned in the use of LPR and/or facial recognition technology to fulfill their missions to protect and serve," said Shawn Smith, Founder and President of Vigilant Solutions.

All U.S. law enforcement agencies, regardless of size, utilizing LPR and/or FR are eligible and agencies may nominate themselves or may be nominated by another agency. Nomination forms are due by September 19, 2017, with a final selection made by September 27, 2017. The winning agency will be notified directly with an official presentation of the award to take place during the annual IACP Conference in Philadelphia, October 21-24, 2017.

The New Jersey State Police Regional Operations and Intelligence Center received the inaugural Best in Force Award at the October 2016 IACP conference in San Diego. Recognized for its pioneering and assertive use of LPR, the agency not only used Vigilant's LPR system to locate numerous felony and stolen vehicles in the state of New Jersey, it was proven successful in several high priority events including tracking down a suspect vehicle following a vehicular aggravated assault on a federal agent, locating the vehicle of a missing person found in another state, and developing leads in a triple shooting with only a vehicle description to go on.

For more information on Vigilant Solutions' Best in Force award, including a nomination form, go to http://www2.vigilantsolutions.com/best-in-force.

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Thursday, August 3rd 3:00 PM EDT

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Product in and money out! Law enforcement agencies are often challenged by the degradation of communities they serve brought on by organized crime groups. These groups use vehicles to traffic guns, humans, narcotics and currency and the unidentified faces of victims and offenders are often caught in various types of imagery. These vehicles and faces are leads that need to be resolved.

Join retired NYPD Dectective Tom Joyce, Vice President of Business Development for Vigilant Solutions, as he discusses how vehicle location data and facial recognition technology can help disrupt these organized crime groups and have an effect on the local crime rates in the communities they operate.

REGISTER FOR THE WEBINAR NOW

Looking forward to you joining us!

Heather Richardson

Partner Marketing Manager
www.vigilantsolutions.com

P.S. If you can't make it to the webinar download the LPR Beyond the Lens eBook to learn how high tech crime fighters use vehicle location data.

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WEBINAR: DISRUPTING ORGANIZED CRIME WITH LPR AND FACIAL RECOGNITION

Thursday, July 27th 3:00 PM EST

REGISTER NOW

Retired FBI Agent Kevin Sheridan, discusses how vehicle location data and facial recognition help disrupt organized crime.

Product in and money out! Law enforcement agencies are often challenged by the degradation of communities they serve brought on by organized crime groups. These groups use vehicles to traffic guns, humans, narcotics and currency and the unidentified faces of victims and offenders are often caught in various types of imagery. These vehicles and faces are leads that need to be resolved.

Join retired FBI Agent Kevin Sheridan, Director of Business Development for Vigilant Solutions, as he discusses how vehicle location data and facial recognition technology can help disrupt these organized crime groups and have an effect on the local crime rates in the communities they operate.

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Join our Facial Recognition Webinar

There are still a few open spots for our upcoming webinar, Validate or Exonerate: The Importance of Facial Recognition Checks and Balances.

In this webinar, Retired NYPD Detective, Roger Rodriguez, will show you how a fully integrated CJIS compliant system, with good enhancement tools and built-in auditing and reporting can assist agencies to validate or exonerate persons wanted in criminal investigations.

Topics Include:

- The importance of reporting and annotation tools
- Checks and balances
- Privacy and compliance
- Use case examples

When: Thursday, July 13th 3:00 PM EST / 2:00 PM CST

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Registration Open for 2017 Conference!

11th Annual National Conference on Responding to Missing and Unidentified Persons Conference

Multiple Victim Events: Implications for Investigation, Search, Rescue, and Recovery
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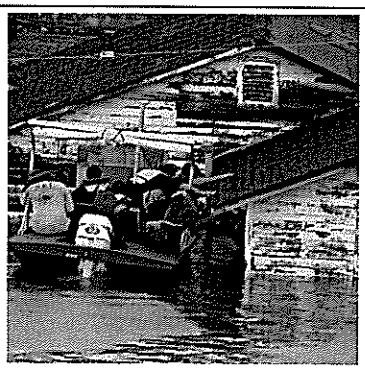
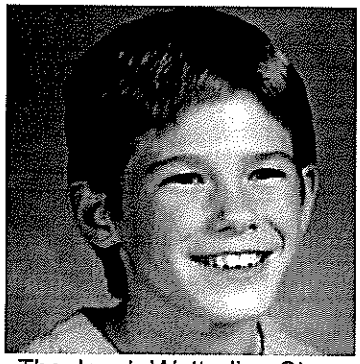
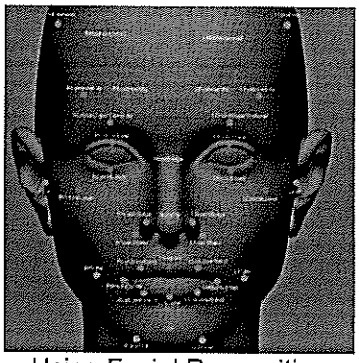
	

Lessons Learned from Katrina	Emergency Ops Planning for Rural Jurisdictions
Panel Discussion	**Investigation Case Study**
 The Jacob Wetterling Story	Barway Collins
Public Information	**High Tech**
Managing the Media at Sandy Hook	 Using Facial Recognition Software

See our agenda for full details about the conference!

AGENDA MORE INFO

Venue and Lodging

Sheraton Atlanta Hotel | 165 Courtland Street NE | Atlanta, GA
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Questions? Please contact us at (888) 347- 5610 or email dcoffice@fvtc.edu

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Cop Gumbo
with Val Van Brocklin

Facial recognition technology and a 'reasonable expectation of privacy'

Law enforcement might consider using discretion before a court decides whether police need a warrant to scan someone's face

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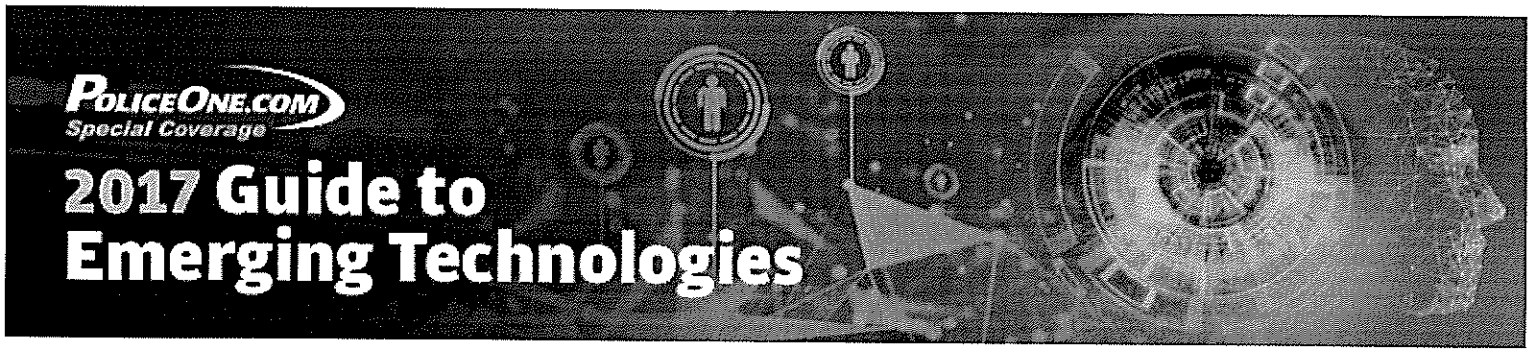

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programs secretly and intrusion on privacy. Eighty percent of the photos were of people who had committed no crime. That's a significant police-created biometric database of primarily law-abiding Americans.

When debating any privacy compromises associated with FRT and active surveillance, society must weigh the costs associated with forgoing anonymity in public versus the benefit of active crime prevention using the newest technology available. (Photo/Pixabay)

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PUBLIC DEBATE

Proponents of police use of FRT argue:

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• Any privacy intrusion is a small price to pay for increased public safety.

• What difference does it make if the government has a digital algorithm of your face they can use to ID you if you haven't done – or aren't doing – anything wrong?

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• FRT allows for a different kind of tracking that can occur from far away, in secret, and on large numbers of people. Fingerprints are only left on things you touch and you know when police are taking them. You can't leave your face at home and, with limited exceptions, it isn't acceptable to cover it. Depending how it's used, FRT could rob citizens of a reasonable expectation of anonymity.

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About the author

As a state and federal prosecutor, Val's trial work was featured on ABC'S PRIMETIME LIVE, Discovery Channel's Justice Files, in USA Today, The National Enquirer and REDBOOK. Described by Calibre Press as "the indisputable master of entertrainment," Val is now an international law enforcement trainer and writer. She's had hundreds of articles published online and in print. She appears in person and on TV, radio, and video productions. When she's not working, Val can be found flying her airplane with her retriever, a shotgun, a fly rod, and high aspirations. Visit Val at www.valvanbrocklin.com and info@valvanbrocklin.com

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Orlando police chief defends use of facial-recognition software

Chief John Mina insisted no members of the public are being tracked by the software

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By Ryan Gillespie
Orlando Sentinel

ORLANDO, Fla. — Three surveillance cameras in downtown Orlando are equipped with Amazon's high-tech facial-recognition software, police Chief John Mina confirmed Thursday — contradicting his claim a day earlier that the software was only being tested at OPD headquarters.

He said at a news conference that five cameras with the company's Rekognition software are in the department's headquarters. The software is also installed on three of the city's IRIS cameras downtown, he said.

Mina still insisted no members of the public are being tracked by the software. Seven OPD officers who volunteered for the pilot are the only people whose images have been uploaded into the system, he said.

He said the software could someday be used in more cameras and for investigations, but "we're a long way away from that."

"We test new equipment all the time," he said. "We test new guns, new vests, new shields, new things for police cars all the time. That doesn't mean that we're going to go with that particular product. We just want to see if it works."

But there remain unanswered questions, including: Where are the cameras that are equipped with the technology? When was the software installed? Does Amazon have access to the video?

During the press conference, Mina told reporters they would be provided the locations of the three downtown IRIS cameras using the software. However, the department later declined to do so, saying that revealing the cameras' locations would pose a security risk.

He was asked whether the cameras' raw video feed goes to any Amazon servers.

"I'm not sure," the chief said.

The existence of the software on cameras in Orlando came to light Tuesday, when the ACLU said it found records during an investigation of Amazon's Rekognition system.

In a letter to Amazon CEO Jeff Bezos, the ACLU led a group of organizations in expressing "profound concerns" about the potential for Rekognition — dubbed "supercharged surveillance" by a technology and civil liberties expert for the ACLU — to be abused.

In a statement Thursday, ACLU attorney Matt Cagle reiterated that point.

"After misleading the people of Orlando, the Orlando Police Department has finally confirmed that it is indeed using Amazon's face surveillance technology on public cameras," he said. "Now, it's up to Amazon. Will it stop selling dangerous technology to the government? Or will it continue compromising customer privacy and endangering communities of color, protesters, and immigrants, who are already under attack in the current political climate?"

At the news conference, Mina said privacy isn't an issue.

"There's no privacy concerns because we're just using the pictures of Orlando police officers who've volunteered for the program," he said, adding: "As far as privacy, these are all public spaces, so there are no privacy concerns."

Mina met with two Orlando Sentinel journalists Wednesday to discuss the department's use of the Rekognition software. He said OPD "was not tracking citizens" and was only testing within the department's headquarters — and not in any public places.

"It's all internal," he said in that interview. He said the agency was testing the Rekognition system by tracking the seven officers' movements around the building.

OPD spokeswoman Michelle Guido said Mina did not know about the cameras downtown being part of the program until Thursday. She declined to make him available after the press conference to answer questions about the discrepancy.

The program is said to be able to pick a person out of a crowd and track their movements in real time. The city said no money was spent on the pilot.

In a video posted to YouTube by Amazon Web Services Korea, Ranju Das, the director of the program for Amazon, called Orlando a launch partner. He then played footage that he said was from a traffic camera in Orlando.

"They have cameras all over the city," he said. "The authorized cameras are then streaming the data ... We are a subscriber to the stream. We analyze the video in real time, search against the collection of faces that they have."

The video showed a neighborhood street with people exiting a vehicle, and one walking a dog. The Rekognition system was able to track them, tracing their path with colorful dots.

However, Mina said that wasn't footage of Orlando and the company didn't have access to its traffic cameras.

"Amazon's access to our video system is extremely restricted," the chief said.

Amazon acknowledged Thursday that the executive misspoke.

Though the technology isn't being used to investigate crimes or search for suspects in Orlando, Mina made clear that he hopes it one day could be. He said the technology could be used in the body-cameras OPD officers wear.

As he did Wednesday, Mina cited the death of Lt. Debra Clayton, who was killed after confronting a murder suspect last year, and the arrest of Michael Shawn Hunt, accused of stalking singer Lana Del Rey when she came to Orlando for a concert, as cases in which it could have helped.

"Those are the types of situations that we would use these cameras, this technology, in — if it in fact works," he said. "We would never use this technology to track random citizens, immigrants, political activists or, certainly, people of color."

Those groups were all cited by the ACLU as being at high risk of abusive surveillance if the Rekognition technology was misused.

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Cop Gumbo
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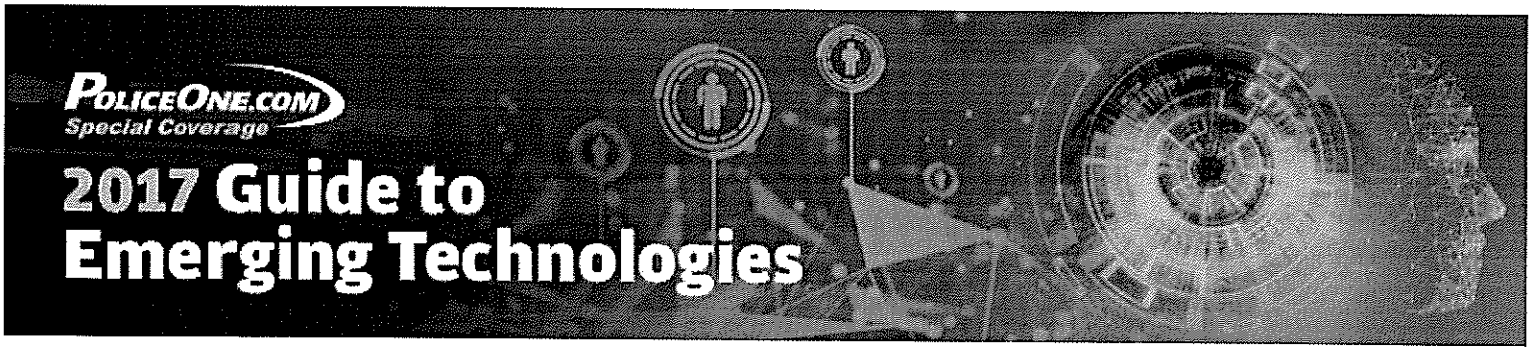

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WEBINAR: FACIAL RECOGNITION AND CYBER CRIMES

May 19th, 3:00 PM EST / 2:00 PM CST

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THE THREAT FROM CYBER CRIMES IS SERIOUS – AND GROWING.

And it's not just corporations that are at risk from this threat. Adults and children in your community could be targets of fraudsters, identity thieves, and online predators.

In this webinar Retired NYPD Detective, Roger Rodriguez will share how to analyze images for cyber-crime investigations such as prostitution rings, identity theft, fraud, and child exploitation using poor quality images obtained from crime victims, social media, or other online sources.

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Sex Offender Management & Investigations, May 10

Facial Recognition & Cyber Crimes, May 17

SEX OFFENDER MANAGEMENT AND INVESTIGATIONS

Wednesday, May 10th 3:00 PM EST

Join Sgt. Kyle Hoertsch with the Sacramento County Sheriff's Department as he discusses best practices for sex offender management and investigations.

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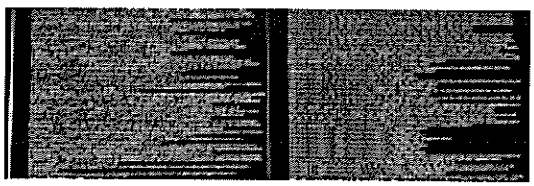
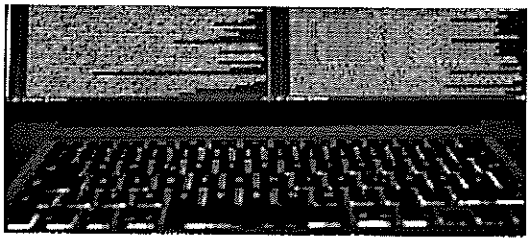


FACIAL RECOGNITION AND CYBER CRIMES

Wednesday, May 17th 3:00 PM EST



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Just a Few Seats Left:

Achieving Facial Recognition Success Webinar

Many investigations using facial recognition encounter one common problem - poor quality images.

In this free webinar, Roger will showcase FaceSearch's easy-to-use tools that enable analysts and investigators to enhance lower-quality images that previously could not meet the criteria for facial recognition searching.

Roger Rodriguez, spearheaded the NYPD's first dedicated facial recognition unit. The unit has conducted over 8,500 investigations, many with poor quality images.

You will learn how to correct low quality images such as:

- Poor subject poses
- Low resolution or heavy pixelation
- Occlusion (any part of the face blocked or covered)
- Images found within a CCTV video

When: TOMORROW, March 22nd 3:00 PM - 4:00 PM EST

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New Webinar:

Achieving Facial Recognition Success with Lower Quality Images

Learn how this breakthrough technology can improve your match odds and help you close more cases!

Join retired NYPD Detective, Roger Rodriguez, as he showcases the new Enhancement Tools available within FaceSearch. These easy-to-use tools enable analysts and investigators to enhance select lower-quality images that previously could not meet the criteria for facial recognition searching.

They can include the following:

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REDACTIVE - Facial Recognition-Based Redaction Software

WATCHGUARD VIDEO — OCTOBER 19, 2016

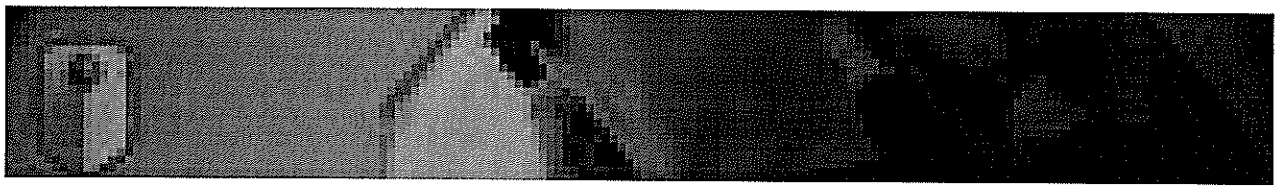
REDACTIVE is a video and audio redaction software that expedites the redaction process and eases the learning curve for evidence technicians and law enforcement officers.

REDACTIVE's advanced facial recognition technology automatically detects and identifies human faces, minimizing the elements of the video which are falsely detected as human, thus reducing the overall time spent manually searching and marking the video for redaction. Users begin the redaction process by instructing the software to auto-detect any face in the video. Once auto-detection is complete, the software allows the user to select and redact the face or faces throughout the video.

"The software is simple to use and extraordinarily powerful in its ability to accurately identify human faces quickly through an entire video clip," said Steve Coffman, President of WatchGuard.
In the wake of the FOIA Improvement Act of 2016 and ever-changing state legislation regarding treatment of video evidence, agencies are shouldering the burden of a significant increase in the quantity and complexity of redaction requests. Redaction requirements can vary from the very specific (i.e. redaction of minors) to the very broad (i.e. redaction of uninvolved bystanders). The increase is leaving agencies struggling to react accordingly.

"Today's redaction tools simply aren't keeping up, forcing agencies to either miss submission deadlines or compromise their output by delivering video that blurs out the entire screen and everything useful," added Coffman. "REDACTIVE's technology reduces the complexity, allowing the evidence technician or officer to deliver the very best redacted video evidence in the shortest amount of time possible."

REQUEST MORE INFORMATION



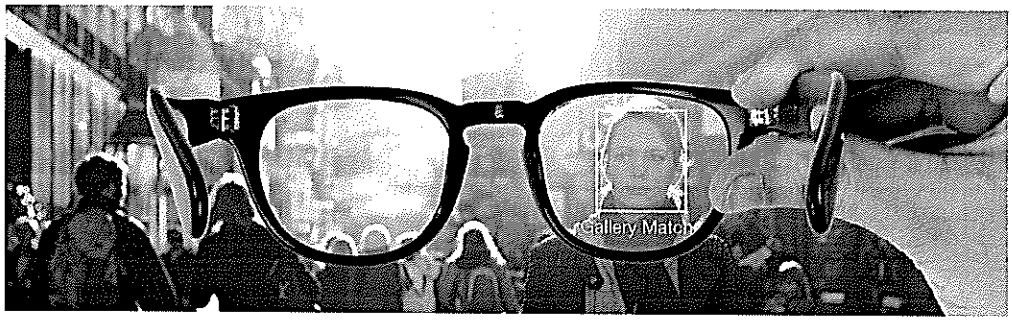
FACIAL RECOGNITION

Undocumented Worker Rescue Redacted Face of Minor

Webinar Today:

5 Best Practices for Facial Recognition

We still have a few spots open for today's webinar, "5 Best Practices for Facial Recognition in Investigations" featuring retired NYPD Facial Recognition expert Roger Rodriguez. But hurry, the webinar starts in just a few hours!



Join Roger Rodriguez to learn the Five Step Investigative Workflow for Facial Recognition, that will increase accuracy and give agencies a better approach when using facial recognition technology.

Other discussion topics will include:

-The image intake and vetting process for facial recognition.
-Developing investigative leads, even with poor-quality probe images.
-Tips and tricks on how to develop more leads with facial recognition.

To join, click the button below and submit the form. You will receive an email with the link to join.

When: Tuesday, January 17th 2:00 PM EST - TODAY

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Webinar: Misconceptions of Facial Recognition Technology

A recent report issued by the Center on Privacy and Technology at Georgetown Law Center has essentially called facial recognition technology racist and that Law Enforcement agencies have not been held accountable in its use.

I will be discussing these claims and more in my next webinar, "Misconceptions of Facial Recognition Technology" this Wednesday.

To join, click the button below and submit the form. You will receive an email with the link to join.

When: Wednesday November, 30th 3:00 PM EST

RSVP Now→

Thanks,

Roger Rodriguez
Manager of Image Analytics
Vigilant Solutions

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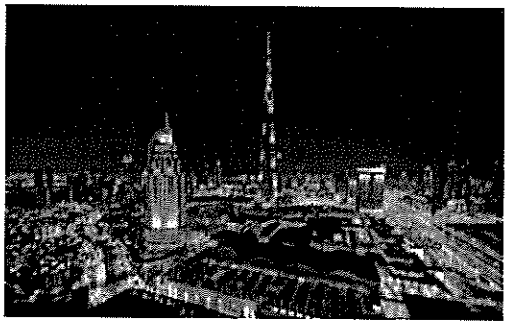

Smarter, Better, Faster: Where Smart Cities Are Headed by 2020

By **James Chong**

Sensor technology is being woven into the fabric of secured cities to improve the proactive state of public safety

TOP NEWS

Will Taser-equipped drones patrol our skies?

Company discusses proposition during law enforcement conference

ONVIF speaks on interoperability, sponsors Secured Cities Summit

Top security and public safety event features more than 46 panels and 60 sponsors in Houston on November 15-17

Downtown Partnership looks to pay Baltimore police for additional patrol officers

Proposal has sparked debate over how police are deployed across city and who should pay

Maryland's use of facial recognition software questioned by researchers, civil liberties advocates

Critics say use of programs lack transparency, infringe on privacy rights

Memphis police narrow down high-crime areas for new cameras

Department to choose one high-crime area in each of the city council's seven districts

Replies received for Wilkes-Barre's RFP for maintenance of security cameras
City's surveillance network has recently been plagued by a multitude of issues

Penn State responds to record $2.4M fine for Clery Act violations
Most of the violations related to the university's handling of the Jerry Sandusky child sex abuse scandal

Letters in TSU lawsuits show dueling security priorities
Police pleaded with university's president for more resources to handle increasing violence, active shooters

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Houston ready to kick off Secured Cities 2016
By **Ray Bernard, PSP, CHS-III**
Respected industry consultant previews his session for the upcoming event

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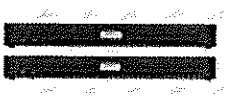
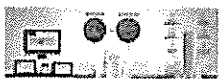


RED3 Integrated Server from Salient Systems



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MEDIA CENTER

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63-year-old attacked passengers at New Orleans airport last year

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Northampton Police Department
29 Center Street
Northampton, MA 01060
413-587-1144
Fax 413-587-1137

On Fri, Nov 11, 2016 at 3:41 PM, Bill Geraghty <bill.geraghty@vigilantsolutions.com> wrote:

> Good afternoon Captain Clayton,
>
> Thank you for stopping by our booth at the IACP Conference in San Diego. As a follow up to your conversation with our staff, I am reaching out to introduce myself as the Northeast RSM for Vigilant. I would appreciate an opportunity to speak with you further regarding your interest in our LPR and/or Facial Recognition solutions for the Northampton Police Department.
>
> Please let me know if you have a few minutes for an introductory call next week. I also plan to be up in the Springfield-area on Wednesday & Thursday of next week so I could stop by for an in-person meeting if you prefer.
>
> Thank you in advance. I look forward to hearing from you.
>
> Sincerely,
>
> Bill Geraghty, CAPP
>
> Regional Sales Manager
>
> Vigilant Solutions Inc.
>
> (917) 923-8717
>
> bill.geraghty@vigilantsolutions.com

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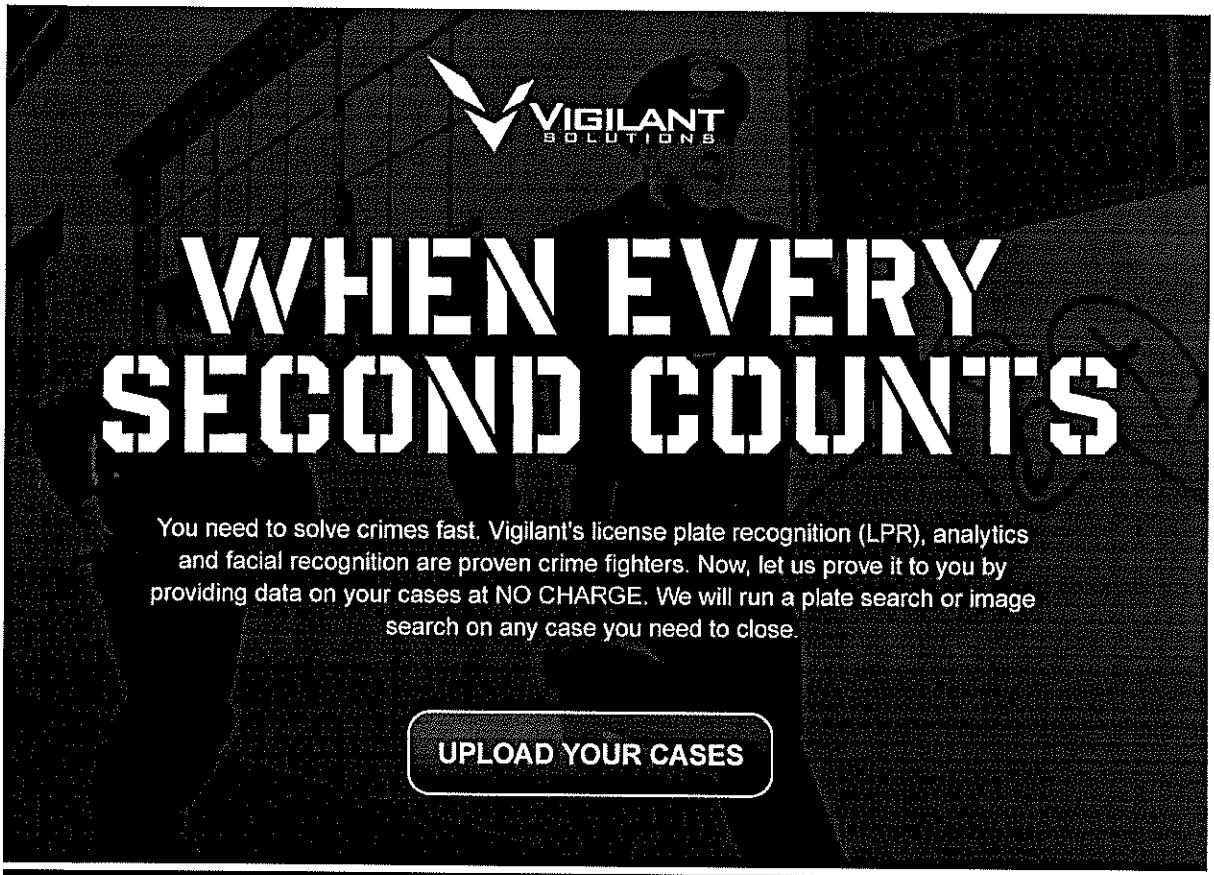
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You need to solve crimes fast. Vigilant's license plate recognition (LPR), analytics and facial recognition are proven crime fighters. Now, let us prove it to you by providing data on your cases at NO CHARGE. We will run a plate search or image search on any case you need to close.
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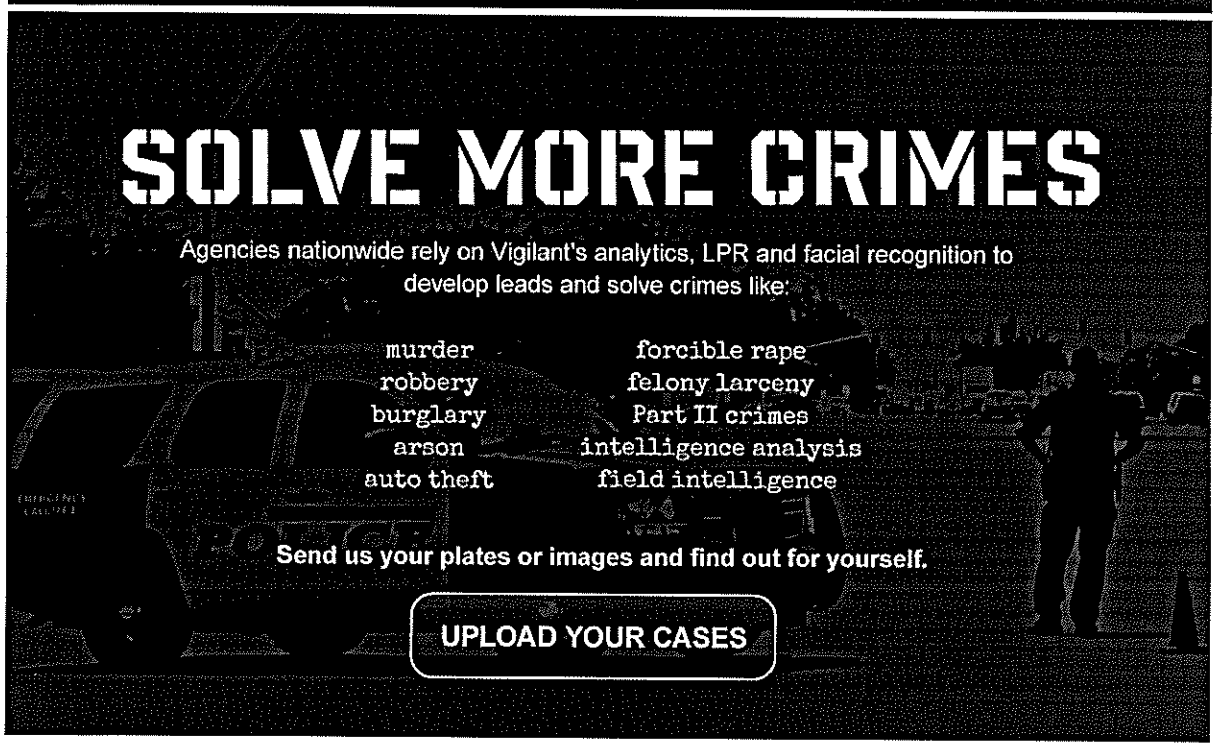
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field intelligence
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UPLOAD YOUR CASES

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Police Products › Police Facial Recognition

Vigilant Solutions Facial Recognition Technology Overview

Vigilant Solutions' facial recognition technology suite includes FaceSearch and Lineup - two revolutionary products that are designed to be easy to use and affordable for agencies of all sizes.

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Bill Geraghty, CAPP
Regional Sales Manager
Vigilant Solutions Inc.
(917) 923-8717
bill.geraghty@vigilantsolutions.com

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Good morning Captain,

Thank you for the prompt reply. Please keep me in mind should the funding situation improve and/or grant funds become available to your agency. Also, please know that we have leasing options that would allow you to purchase a system from your operating budget as opposed to a capital expense.

Thanks again and have a great day.

Sincerely,

Bill Geraghty, CAPP
Regional Sales Manager
Vigilant Solutions Inc.
(917) 923-8717
bill.geraghty@vigilantsolutions.com

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From: Dorothy Clayton [mailto:dclayton@northamptonma.gov]
Sent: Monday, November 14, 2016 8:46 AM
To: Bill Geraghty <bill.geraghty@vigilantsolutions.com>
Subject: Re: Follow up

Hi Bill,

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Captain Dorothy A. Clayton
Northampton Police Department
29 Center Street
Northampton, MA 01060
413-587-1144
Fax 413-587-1137

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Dear Previous Attendees:

We are happy to announce that registration is now open for the **IAFCI CT Chapter "Spotlight on Fraud VII" Training Conference which will be held on June 5-6, 2019 at Mohegan Sun in Uncasville, CT.**

Please see the attached registration form for additional information. We are finalizing the agenda and we will update on the IAFCI website once it is final.

You can also register online at www.iafci.org and then click on training events, regional training events and click on Spotlight on Fraud VII to register.

We have a special room rate of $159 per night with the hotel, but act fast because rooms fill up quickly. If you have any questions, please feel free to reach out to CT Chapter Vice President, Heather Bozentko at:

hbozentko@stamfordct.gov

And remember, for law enforcement agencies that have exhausted their training budget for the year, there is a deferred payment plan which will allow you to pay by July 30, 2018.

We hope to see all of you once again and we look forward to another training and networking opportunity!

Respectfully

Gary Mackiewicz
IAFCI CT Chapter President

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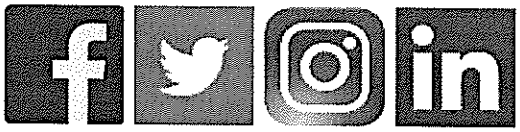

Dear Detective,

Hello, my name is Fran from Suspect Technologies. We developed a highly accurate facial recognition technology that works for any cameras to make identification of people, easier and faster. In turn, we hope it will make identification of suspects easier, save resources, save time, and of course reduce crime. We are currently trying to gather insights to see if this technology works for you, any suggestions or comments, and if this is something that you think would be helpful for you in investigations and possibly the field. Just to be clear, I'm not necessarily trying to sell you anything. We are a spin-off from MIT. We are trying to understand if detectives want this or not and how they are currently using facial recognition and related technologies. Any feedback is helpful. Are you available to answer some quick questions via email or phone?

Best Regards,
Fran
Suspect Technologies

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Did you know that you can access all of our solutions from one platform? Vigilant Investigative Center (VIC) is an investigative platform that houses all of our solutions â€“ ALPR, facial recognition, ballistics analysis, gun crime mapping and more â€“ in one place.

Interested in learning more about VIC? Join us for our webinar, Come MeetÂ VIC, hosted by retired NYPD Lieutenant Commander, Tom Joyce. See firsthand how VIC can take your investigations to another level!

DATE: Thurs, November 8th
TIME: 1500 - 1600Â EDT

Save a Seat

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Police Products › Police Facial Recognition

Policing Matters

with Policing Matters Podcast

The limitations and potential of facial recognition software

Police are using the software more and more to identify wanted criminals, missing people and suspected terrorists spotted on video

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Download this week's episode on iTunes, SoundCloud or via RSS feed

Last year, rights groups and even Amazon employees and stockholders sought to stop that company from providing its Rekognition software to law enforcement agencies. By all accounts, that effort has failed, as police are using the software—as well as solutions from other vendors—more and more to identify wanted criminals, missing people and suspected terrorists spotted on video. In this podcast segment, Jim and Doug discuss the use of facial recognition technology, its limitations, and its potential for the future.

LEARN MORE

What police departments should consider before implementing facial recognition software

Facial recognition technology and a 'reasonable expectation of privacy'

legal, privacy concerns to consider before implementing this scanning technology

How facial recognition solves cases in Indiana

Police Video Guide: The emerging tech, training and tactics shaping law enforcement

About the author

Talking the beat with leaders and experts on the PoliceOne police podcast.

In the Policing Matters Podcast, PoliceOne Senior Contributor **Doug Wyllie** and San Francisco Deputy Chief **Jim Dudley** (ret.) discuss current news, offer advice, thoughts, tips and laughs for officers. Have a topic you want discussed on the show? Send your comments and suggestions to policingmatters@policeone.com, and tune in every Friday for a new episode. Policing Matters is available for download on SoundCloud and via RSS feed.

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How facial recognition solves cases in Indiana

The state fusion center helps local agencies develop leads and catch criminals using facial recognition from Vigilant Solutions

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By Tim Dees for PoliceOne BrandFocus

What if you could identify a suspect from a powerful network of databases instead of just a single database? The Indiana Intelligence Fusion Center uses facial recognition technology from Vigilant Solutions to assist local, state and federal agencies in generating leads to identify persons of interest and solve crimes, large and small.

Facial recognition technology from Vigilant Solutions helps agencies identify persons of interest (photo/Vigilant)

Sgt. Jeff Carmin has spent most of his career in the more traditional roles of two city police departments and the Indiana State Police, performing traffic and criminal investigations throughout the state. He is now the director of operations at the Indiana Intelligence Fusion Center (IIFC) in Indianapolis.

WHAT IS A FUSION CENTER?

Fusion centers were established across the United States in the wake of 9/11 to create an information-sharing base among law enforcement agencies, whether federal, state, local or tribal. State and major urban area fusion centers provide information and intelligence to local agencies, working alongside federal agencies like the Department of Homeland Security and the Federal Bureau of Investigation to help local law enforcement.

The IIFC, operated by the Indiana State Police, leverages resources that would often be too costly for local agencies, said Carmin. It draws information from roughly 60 different databases and 72 other fusion centers around the United States.

The center also uses Vigilant Solutions for automated license plate and facial recognition technologies. Carmin said the center has used other facial recognition programs but none as successfully as FaceSearch from Vigilant Solutions.

"If you sent me a photo and the guy was looking to the side or down, or wasn't looking straight on like a driver's license photo, we weren't getting good results," he said. "What made us go with Vigilant, besides the cost, was the user-friendliness of it."

MATCHING MUG SHOTS IN THE DATABASE

The IIFC's experience with the Vigilant Solutions' facial recognition system improved significantly after they uploaded mug shot photos stored in Indiana's automated fingerprint recognition system into the comparison gallery maintained by Vigilant Solutions.

"Since then, we've had outstanding results when an investigator requests something via our facial recognition system," Carmin said. "There are just a little under a million booking records."

IIFC can also run comparisons against Vigilant Solutions' master gallery, which contains records from various Vigilant users around the country. Other image databases are available for comparison as well.

"The Department of Homeland Security has a site with multi-state facial recognition. We also utilize that for 30 different states that can run it against their different databases, whatever they may be," said Carmin.

HOW FACIAL RECOGNITION TECHNOLOGY WORKS

Whereas humans recognize faces by an analog method, computers do it by digital mapping. By measuring and comparing distances and angles between facial landmarks – like pupils, the corners of the mouth, the tip of the nose, the lowermost aspect of the chin, etc. – a face can be expressed as a digital pattern the computer can compare with other patterns.

When a sample photo is submitted for analysis in a facial recognition system, the system locates records with a similar pattern in the database and returns them to the user as possible matches.

Local investigators wanting to make use of the IIFC's facial recognition system upload photos or video still frames for comparison. An IIFC analyst enhances the photo, if necessary, using the Vigilant Solutions software, and the comparison results are sent back to the investigator, along with a log of enhancements made to the specimen image.

Vigilant Solutions' FaceSearch system can correct for various problems, such as an off-axis angle or poor image quality

Carmin said. "It will clear the photo up if it's a blurry photo, it will add eyes if the eyes need to be added and that type of thing."

SOLVING CASES BIG AND SMALL

Carmin recounts one success story where the IIFC assisted in a case where $7,000 in gift cards was stolen.

"The only photos available were two profile shots, both taken from video surveillance footage," he said. "Using the enhancement tools in the Vigilant software, an analyst was able to match the surveillance image to a booking photo of an inmate then housed in a county jail. The suspect was from Missouri and had no other ties to Indiana except that booking record. He also had outstanding arrest warrants."

Thanks to the image match from the Vigilant system, the suspect was identified at the county jail, served with the warrants and charged with the gift card theft.

"We've had a lot of success with this system," Carmin said. "It could be a homicide case, or it could range all the way down to a simple petty theft case."

Using a powerful technology to solve a shoplifting case might seem like overkill, but it illustrates how making a tool like facial recognition available to all law enforcement can improve satisfaction for all concerned (the gift card thief being a likely exception).

About the Author

Tim Dees is a retired police officer and the former editor of two major law enforcement websites who writes and consults on technology applications in criminal justice. He can be reached at tim@timdees.com.

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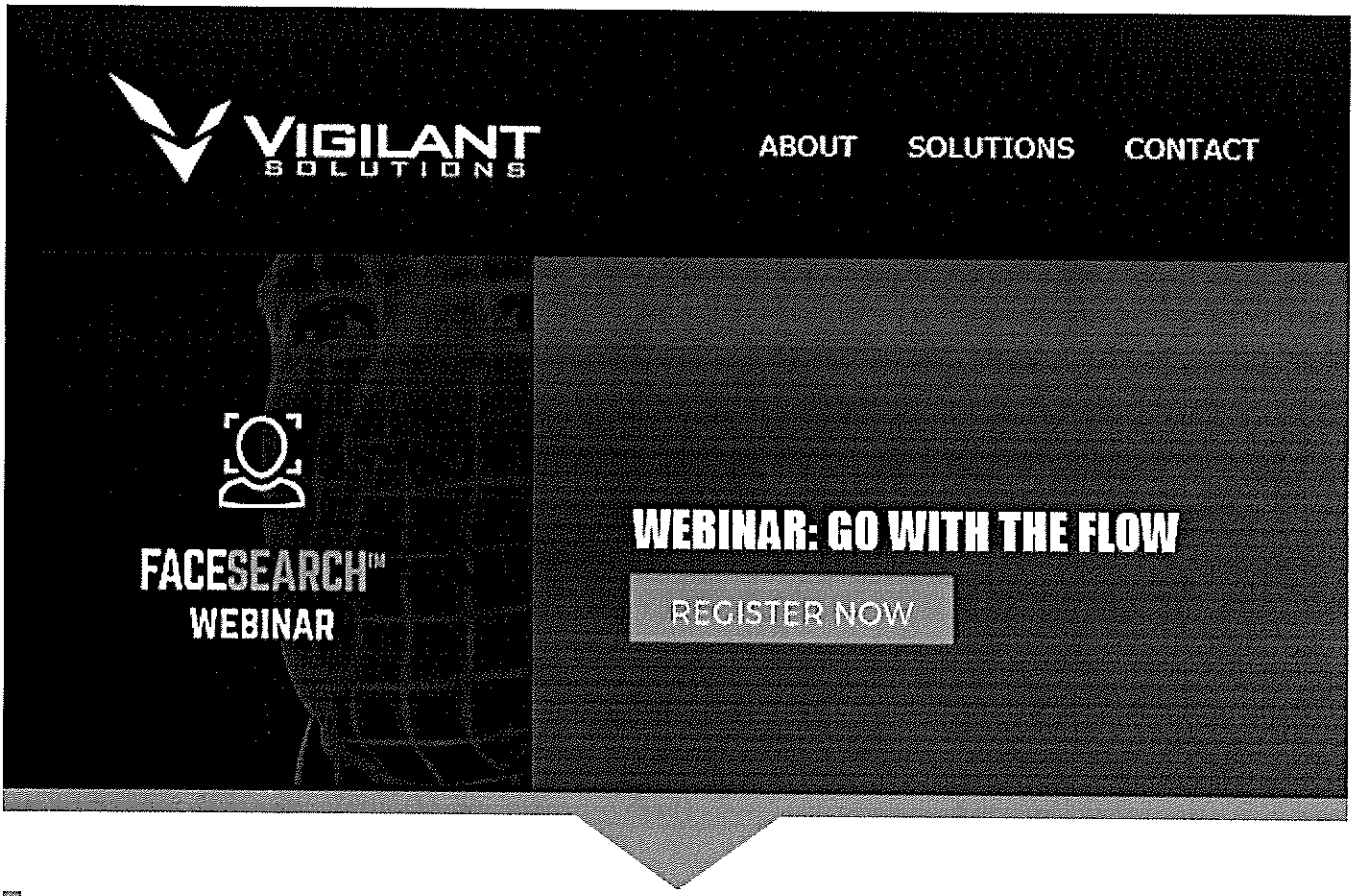

Â JOIN US

Webinar-Go With the Flow: The 5 Step Process Behind Every Facial Recognition Search

During Roger's tenure as a lead detective in the New York City Police Department's first dedicated facial recognition unit, he acquired the skills and first-hand experience in best practices for facial recognition in public safety. The success of this unit was driven by establishing a defined workflow which helped develop strong investigative leads and close cases faster.

Join Roger Rodriguez, Director of Client Relations for Vigilant Solutions, as he explains the 5 Steps of the Facial Recognition Investigative Workflow. See firsthand how agencies nationwide are generating positive results with FaceSearch, Vigilant's facial recognition solution.

Register for our webinar: Go With the Flow,Â and we will explain why the facial recognition process still needs human involvement.Â

REGISTER NOW

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WHEN Thursday, September 13th, 2018 | 3:00 PM - 4:00 PM EDT

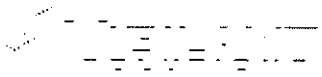
HOSTS

Roger Rodriguez

Director of Client Relations, Vigilant Solutions

Detective, NYPD (RET.)

REGISTER NOW



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