FACIAL RECOGNITION
07/18/2017 - 04/18/2018

Stone, Andrea

From: Tom Joyce <bevigilant@vigilantsolutions.com>
Sent: Tuesday, July 18, 2017 5:10 PM
To: Ecass@springfieldpolice.net
Subject: Webinar next week

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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.

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From: Heather Richardson <customercare@gotowebinar.com>
Sent: Tuesday, July 18, 2017 7:22 PM
To: Cdodge@springfieldpolice.net
Subject: Webinar-Facial Recognition and Cyber Crimes Wed May 17th Confirmation

Dear Chris,

Thank you for registering for "Webinar-Disrupting Organized Crime with LPR and Facial Recognition Thurs July 27th".

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.

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Thanks,
Heather Richardson
heather.richardson@vigilantsolutions.com

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From: Tom Joyce <bevigilant@vigilantsolutions.com>
Sent: Thursday, July 20, 2017 4:26 PM
To: clandrau@springfieldpolice.net
Subject: [Webinar] Next Thursday

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Sent: Wednesday, July 26, 2017 11:54 AM
To: Cdodge@springfieldpolice.net
Subject: Webinar-Facial Recognition and Cyber Crimes Wed May 17th Confirmation

Dear Chris,

The time for this webinar has changed.

Thank you for registering for "Webinar-Disrupting Organized Crime with LPR and Facial Recognition Thurs Aug 3rd".

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Thanks,
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Please send your questions, comments and feedback to:
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Stone, Andrea

From: Jim Hanson <jim@cognitec.com>
Sent: Tuesday, August 08, 2017 9:51 AM
To: wschwarz@springfieldpolice.net
Subject: Real Time Facial Recognition
Attachments: FaceVACS-DBScan-5-1-flyer.pdf; MobileExaminer.pdf; references-lawenforcement.pdf; facevacs-videoscan-5-3-flyer.pdf

Greetings Bill,

We met at IACP last year in San Diego where we discussed your interest in evaluating FaceVACS-VideoScan and FaceVACS-DBScan.

FaceVACS-VideoScan uses world-leading face recognition technology to detect and identify persons of interest while computing demographic and behavioral data in real time. The FaceVACS-VideoScan Enterprise Solution combines the FaceVACS-VideoScan software and a pre-configured hardware package specific to the software requirements and architecture. The solution allows for the installation of up to 50 cameras and a throughput of 30,000 people per day. The ready-made solution enables quick deployment and operation of the system at the premises of the client.

Kindly let me know if we can schedule a call to continue our discussion from last year.

Best regards,

Jim Hanson
Professional Services Consultant

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Cell +1-781-600-1309 · jim@cognitec.com

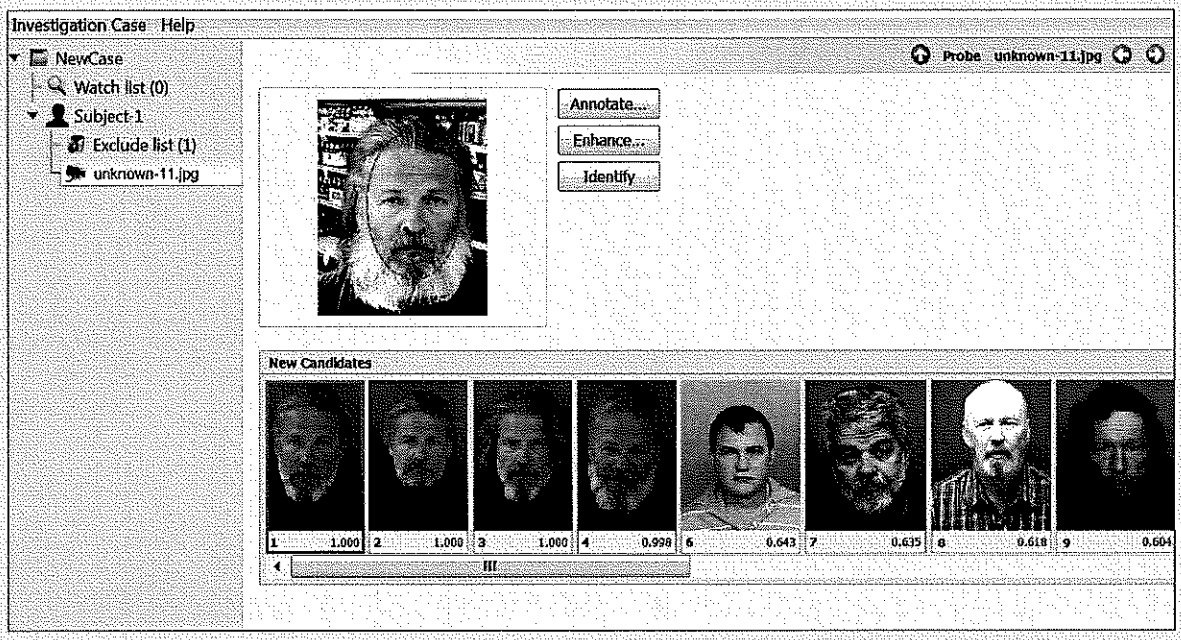
FaceVACS-DBScan

Cognitec

Face recognition technology

for matching facial images in large databases

- compare facial images from different sources to those stored in multi-million image databases
- instantly view match lists with the most similar identities
- control thresholds and match list sizes
- use Examiner tools and filters to enhance images and compare them side by side
- manage demographics and other case-related data
- run as a ready-to-use application or integrate into your applications and infrastructure



Applications

Law enforcement and criminal investigation

- identify suspects
- create match lists
- search for missing persons

Photo indexing and sorting

- search or index collections of digital photos by face

ID fraud prevention and detection of clerical errors (search for multiple identities)

- ePassport
- eVisa
- driver's license
- health card
- corporate ID card
- voter registration

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Cognitec

Examiner

Investigators rely on our innovative technology to match crime scene photos and surveillance video images against the agency's mug shot repository and immediately act upon the search results.

Probe enhancement filters

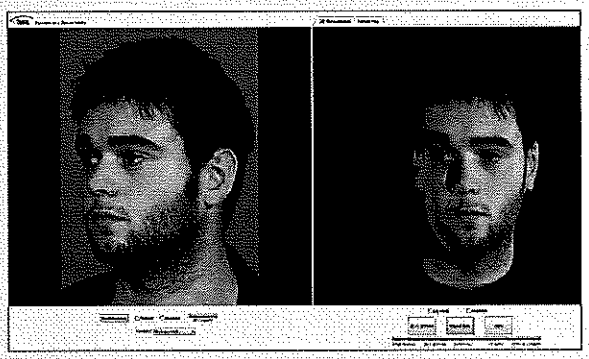
- pose normalization using 3D technologies to create frontal views
- de-interlace filter for images from interlaced video
- median filter to remove noise
- histogram to correct contrast
- aspect ratio filter to correct lens distortion
- face cropping filter

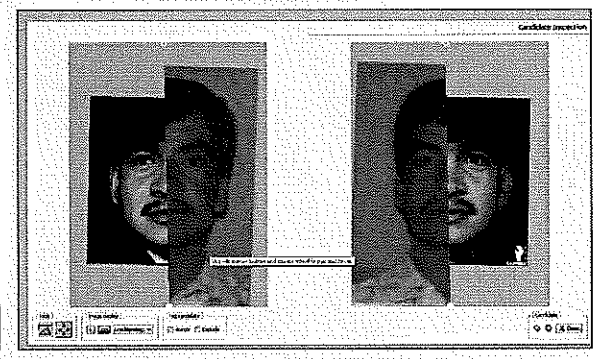
Detail inspection

- superposition probe and candidate image
- measure angles and distances
- use single or side-by-side line blending tool

Investigation management

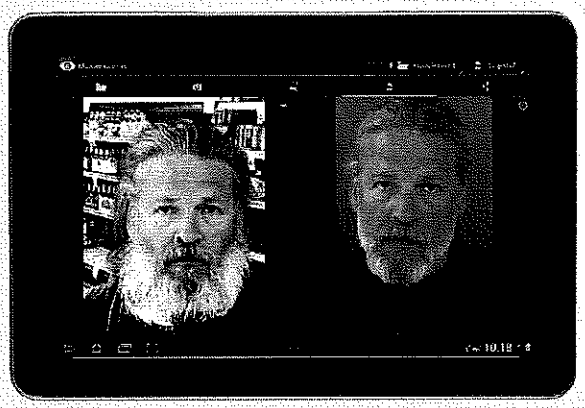
- create investigation case and add probe images
- generate and maintain candidate lists, along with demographic data
- inspect image pairs
- manage watch lists and exclude lists
- print reports





Mobile Examiner

- use cameras in mobile devices to take suspect photos at the scene
- search central databases and instantly receive candidate lists
- view person demographics and other related information
- intuitive user interface
- flexible display options for candidate lists and data



Cognitec develops market-leading face recognition technologies and applications for enterprise and government customers around the world. Various independent evaluation tests have proven the premier performance of the FaceVACS® software. Cognitec's portfolio includes products for facial image database search, video screening and analytics, border control, ICAO compliant photo capturing and facial image quality assessment. Corporate headquarters are located in Dresden, Germany; other offices in Rockland, MA, USA and Sydney, Australia.

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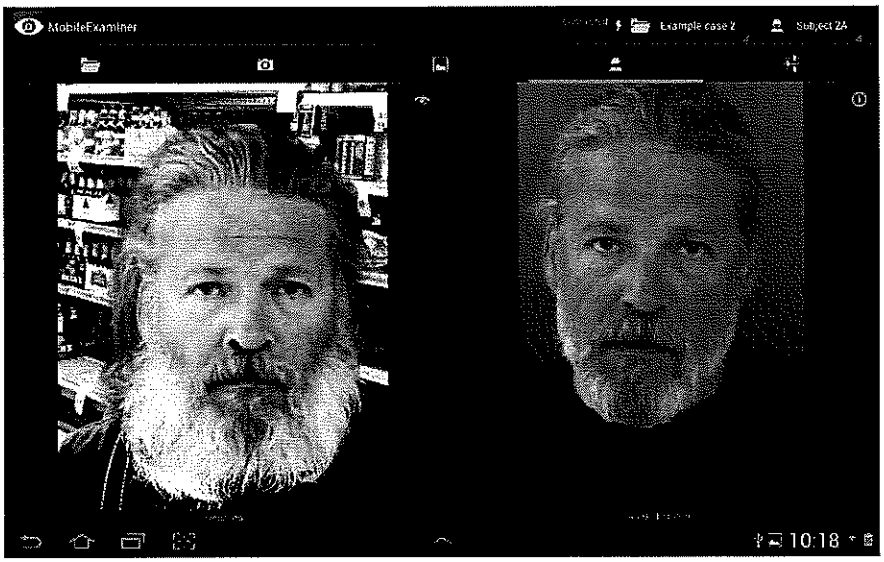
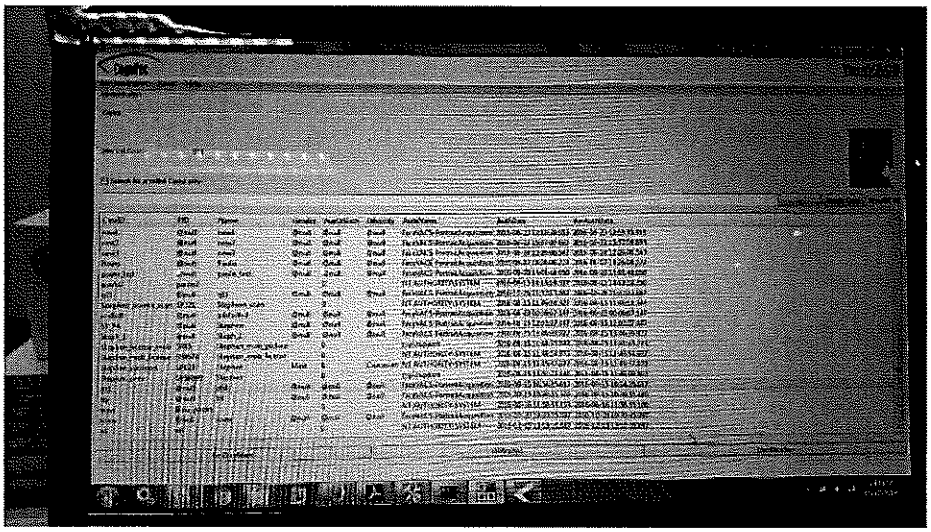
The face recognition company

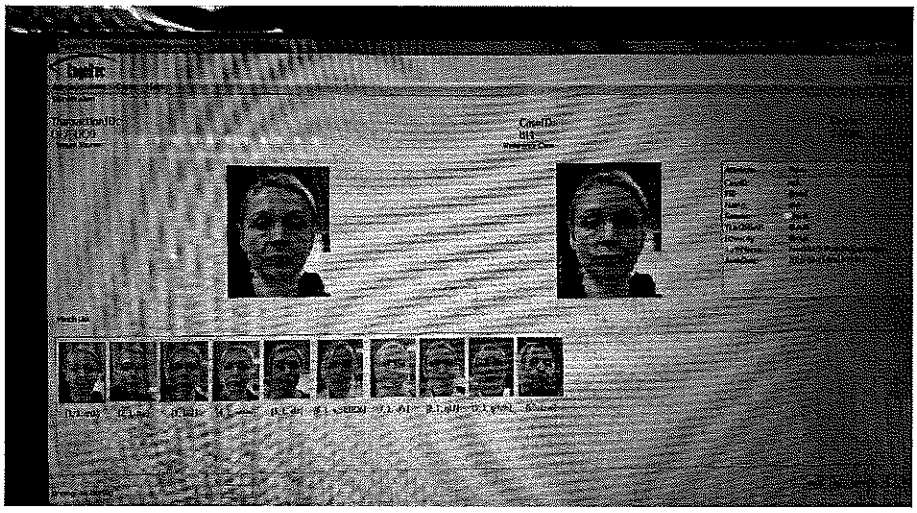
Mobile Examiner

- **take suspect photos at the scene**
- **search central databases and instantly receive candidate lists**
- **view person demographics and other related information**



Central Database (FaceVACS-DBScan)





FaceVACS-DBScan product compares facial images from various sources to large image databases, supporting the biometric identification, comparison, and verification of persons.

In our example there are few face images were enrolled into the DBScan database.

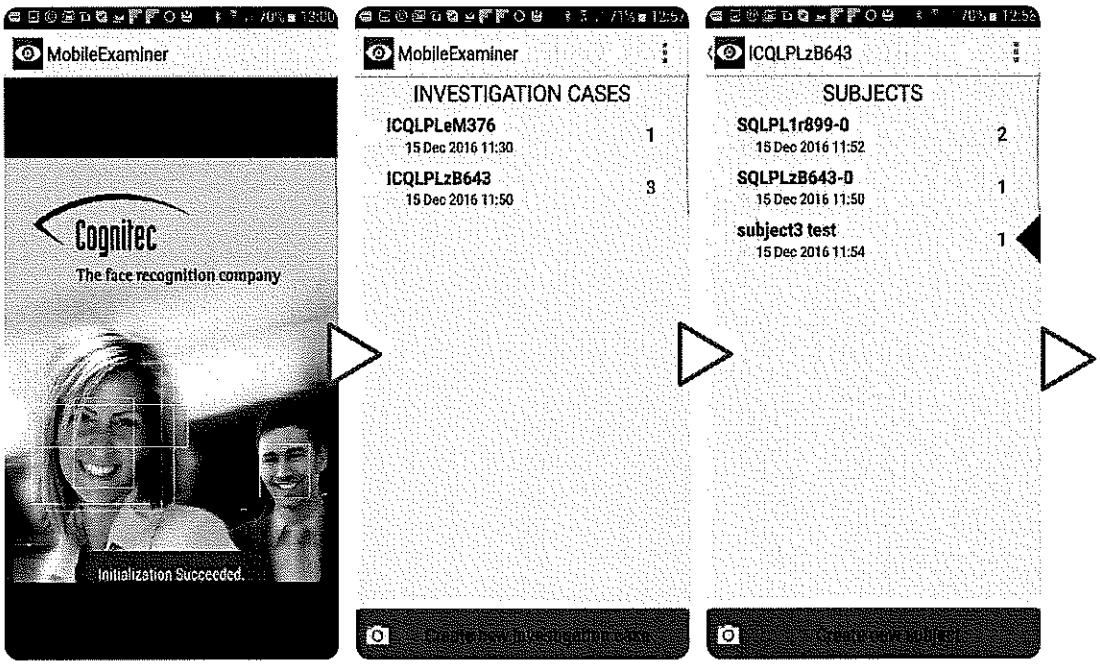
Identification was run and a list of 10 candidates with matching scores from the highest to the lowest has been returned.

This is just to see that we have the face images in the Central database.

Mobile Examiner

Mobile Examiner application is installed on the Android mobile device.
When the application started:

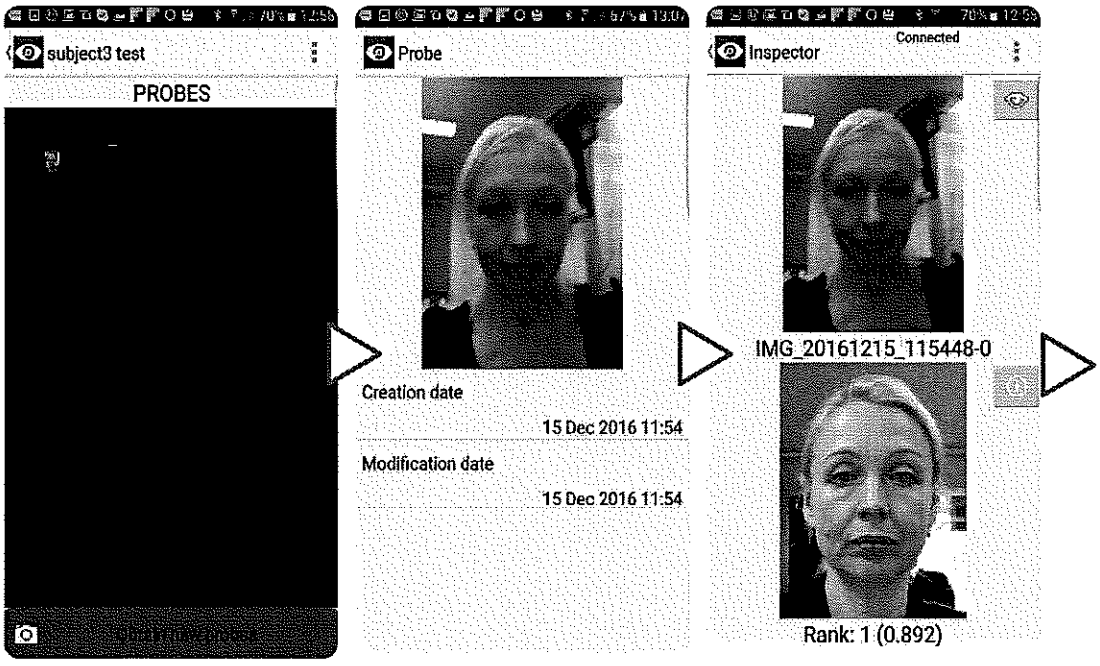
Pic.1: Initialization
Pic.2: Create New Investigation Case
Pic.3: Each Investigation case can have multiple Subjects, containing probes for investigations



Pic. 1 Pic. 2 Pic.3

Mobile Examiner

Pic.4: Under Each Subject probe image is taken (by mobile device camera or from image file)
Pic.5: Create New Investigation Case
Pic.6: As soon as the Probe is taken – it shows the list of candidates (as result of Identification against the Central database)



Pic. 4 Pic. 5 Pic.6

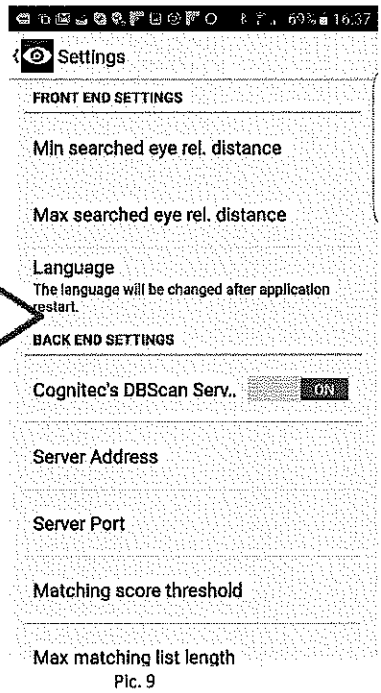
Mobile Examiner

Mobile Examiner application is installed on the Android mobile device.
When the application started:

Pic.7: Scrolling through list of Candidates (Candidate number 4)
Pic. 8: Candidate #8, etc.
Pic. 9: Settings to configure connection to the Central database, candidates list thresholds, etc.

Pic. 7

Pic. 8



Pic. 9

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The face recognition company

Thank you!

www.cognitec.com
info@cognitec.com

We are committed to deliver the best face recognition performance available on the market.

Law Enforcement

Key References for Image Database Search Applications

Germany: Federal Police Agency (Bundeskriminalamt – BKA)
BKA is using FaceVACS-DBScan to identify suspects from photographs and videos, current database size is 10 million images.

Germany: State Police Agency of Saxony (Landeskriminalamt – LKA Sachsen)
LKA Sachsen is using FaceVACS-DBScan to identify suspects from photographs and videos, current database size 0.5 million images.

France: Direction Générale de la Gendarmerie Nationale
Gendarmerie Nationale is using FaceVACS-DBScan to identify suspects from photographs and videos; current database size is 5 million images.

Netherlands: Forensisch Instituut (Ministry of Justice)
The institute uses the application for law enforcement, performing databases searches for investigations.

Georgia: Ministry of Internal Affairs
The Ministry uses FaceVACS-DBScan for investigations purposes, current database size: 15 million images.

Law Enforcement USA
The following law enforcement agencies use FaceVACS-DBScan to identify suspects from photographs and videos, listed with current image database size.

Michigan State Police: 3 million images
Pennsylvania JNET: 3.5 million
Los Angeles County Sheriff's Department: 7 million
Lane County Sheriff's Office: 250,000 images
Riverside County Sheriff's Department: 1.25 million
Chicago Police Department: 5 million
San Mateo County Sheriff's Office: 1.25 million images
San Joaquin County Sheriff's Office: 750,000
San Diego County Sheriff's Department: 1.75 million
Collier County Sheriff's Office: 200,000
Sacramento County Sheriff's Department: 1.3 million
Hennepin County Sheriff's Department: 1.25 million

The information contained in this document is strictly confidential.
Details can be provided upon request.

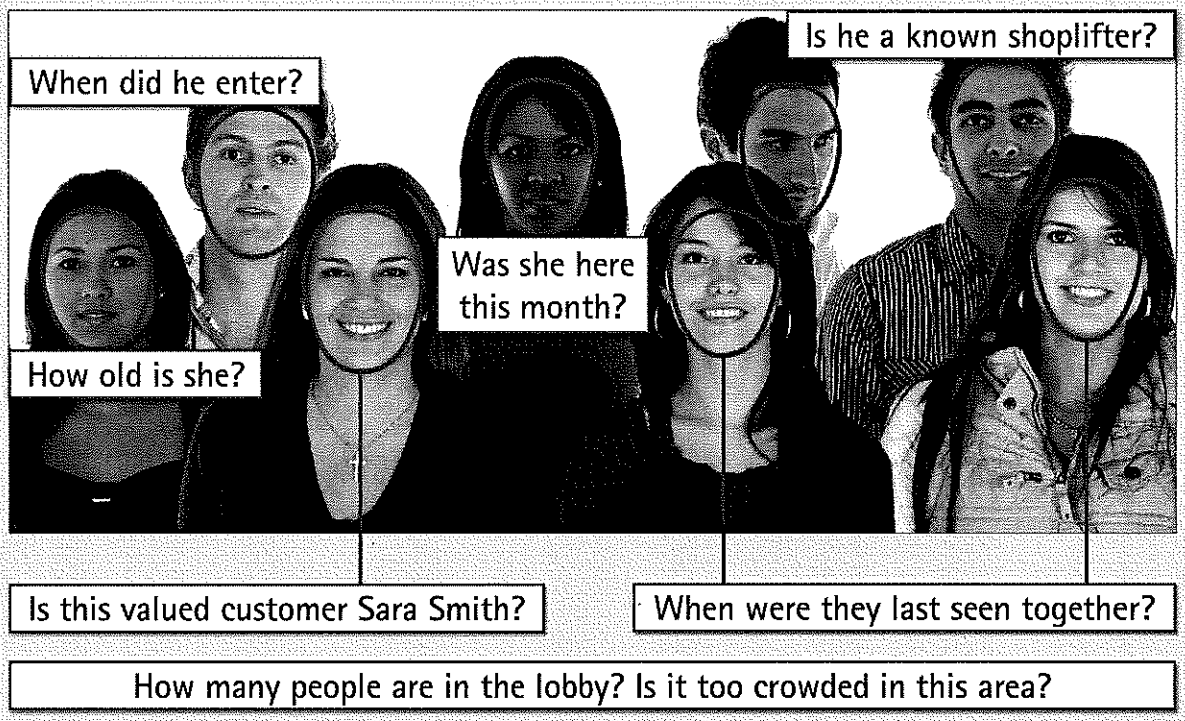
FaceVACS-VideoScan

Cognitec

Face recognition technology

for real-time video screening and anonymous people analytics

- instantly detect, track, recognize and analyze people in live video streams or video footage
- store and view face streams for each appearance of a person over time
- use anonymous face recognition to compute people analytics while protecting privacy
- perform real-time comparisons to image databases and watch lists
- receive real-time signals when user-defined events occur
- define, view and export statistics about people flow, visitor demographics and client behavior



Applications

Surveillance

- screen public or private places (e.g. shopping malls, airports, casinos, hospitals and banks) and identify known individuals in real time
- search recorded media files for unknown persons or persons enrolled in a database
- recognize authorized personnel
- monitor access to restricted areas

Recognition of valued customers and frequent visitors

- alert staff to provide special treatment to valued customers

People analytics, people flow and business intelligence

- use anonymous demographical data for marketing and operational decisions, and to tailor advertisments
- analyze traffic patterns and times to change interior design, place advertising and plan staffing
- detect crowds and manage waiting/transit times in specific areas
- alert security staff, direct traffic and enhance customer experience

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Features

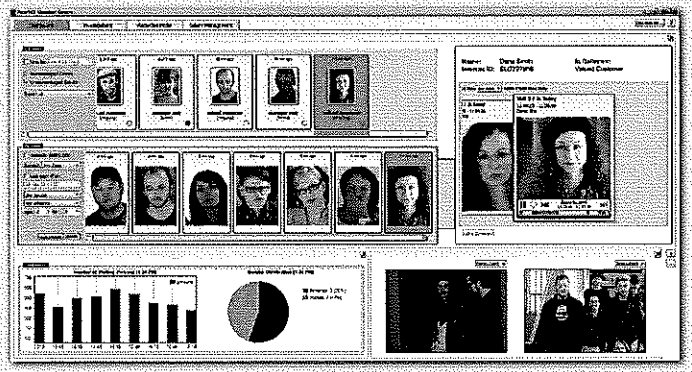
General

- stores high-resolution video sequence of the cropped face (face stream) of each appearance in front of a camera
- compares all appearances of persons against each other in real time to determine and cluster identities
- supports anonymous face recognition for people analytics, intelligent signage and people flow applications
- sends signals and statistics to mobile devices
- uses Cognitec's latest face recognition algorithm
- provides a clear graphical user interface with expandable pop-up screens to view data details and live video streams
- supports interactive enrollment from still image and live video stream
- runs as a stand-alone application or integrates into third-party solutions

Real-time event display

FaceVACS-VideoScan installs with a pre-defined catalog of event types. The application shows events and/or sends mobile event notifications if, for example:

- a person is matching a facial image in a gallery
- a person is matching certain criteria (e.g., male, Asian, 30-40 years old)
- a person is first seen within one zone (defined area that includes *n* number of cameras) and later within another zone (transit)
- more than *n* persons are seen within a zone during a certain time span (crowd)
- a person visiting a site more than *n* times during the last *n* days (frequent visitor)
- a person matching a facial image in a gallery is seen without a person from a second gallery (unattended person)



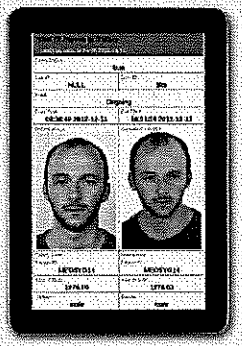
Statistics

For example, users can configure statistics and data display for:

- count of individuals during a respective time window
- count of visits in relation to length of visit
- average transit time for the last *n* transits
- distribution of age groups
- distribution of male and female visitors
- distribution of ethnicities

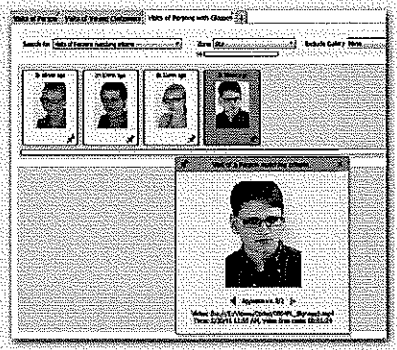
Mobile event notification

Receiving event notifications and statistics on mobile devices allows users to act within the immediate vicinity of a suspect, security threat or valued customer.



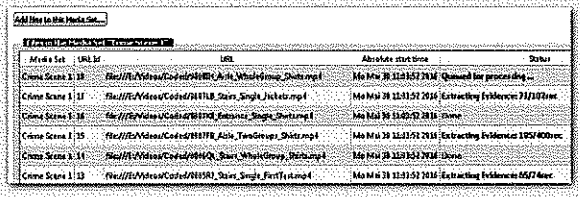
Detailed investigations

FaceVACS-VideoScan allows users to perform complex searches on persons appearing in real-time camera streams and/or stored media files. Investigators can find a person enrolled in an image database or search for an unknown person. Person searches can make use of filters that specify time, location, age range, gender, ethnicity and glasses.



Recorded media import

FaceVACS-VideoScan features a user-friendly interface to quickly import sets of video/image files and then carry out detailed investigations. As various media files are uploaded into the system, the technology detects faces in videos and still images, creates a face stream for each appearance, and groups all appearances of the same person (identity clustering). FaceVACS-VideoScan processes recorded video files even faster than live camera streams.



FaceVACS-VideoScan C5

Face detection/tracking and camera technology in a single device

- provides high image quality of machine vision cameras while using bandwidth and network structures for surveillance cameras
- optimal integration with FaceVACS-VideoScan; migrates video processing intelligence of the stream processor into the input device
- performs real-time, gapless face detection/tracking of multiple faces
- generates lossless, cropped video streams (face streams) for all faces appearing in front of the camera
- offers integrated camera control for optimized exposure on the face area
- supports RTSP/H.264 video streams for integration with digital video recording systems
- not a stand-alone product; sold with FaceVACS-VideoScan software
- lens not included

Editions

Depending on your requirements, Cognitec will recommend a product edition with the optimal feature set:

E1	E2	E4	
Use cases include:			
▪ intelligent signage (display of messages/ advertising based on the demographics of the person(s) looking at the camera) ▪ people counting ▪ analysis of visitor demographics	▪ analysis of visitor demographics ▪ counting individual visitors, excluding personnel or other groups of people	▪ security and customer relations: receive match list signals when known person appears in front of camera or a crowd gathers ▪ counting individual visitors in multiple zones ▪ people flow management	▪ investigation of any person appearing in real-time camera streams and/or stored media files based on facial image, time, location, gender, age range, etc. (includes ability to import sets of video/image files)

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Stone, Andrea

From: Tim Palmquist <tpa@milestonesys.com>
Sent: Thursday, October 12, 2017 8:07 AM
To: jbarbieri@springfieldpolice.net
Subject: Free Custom Demo at IACP

Visit with Milestone Systems™ at IACP 2017

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View it in your browser.

milestone

Dear John Barbieri

Come Visit Milestone Systems™ at IACP 2017

We are gearing up for IACP 2017, held October 21st - 24th in Philadelphia, Pennsylvania and we'd like to invite you to our booth for a **FREE** custom demo. Come experience how Milestone's XProtect® Video Management Software allows for the creation of custom and scalable solutions.

ABOUT MILESTONE SYSTEMS

Milestone IP video technology makes it possible to use video surveillance not only for security and safety, but for all kinds of uses to cost-effectively monitor operations. The open architecture of Milestone products means that users can create custom solutions and incorporate new technology as it is developed to

solve any security challenge.

Many city officials around the world are purchasing centralized surveillance management systems to better protect their communities. Large cities require more resources to handle threats such as vehicle theft, pickpockets, assaults, gang violence, and shootings. Award-winning XProtect® video management software can improve overall public safety by reducing response times and providing law enforcement agencies with the ability to handle emergencies in a more effective way.

At IACP, we will exemplify:

- *the ability to respond quickly to active alarms*
- *how the open platform makes it possible to integrate add-on products and*
  third-party applications such as video analytics, facial recognition, and license plate recognition
- *the capability to always access video recordings of critical situations*
  how easy it is to navigate between cameras that are spread across a large geographical area .
- *how to proactively monitor multiple cameras simultaneously with XProtect*
- *the ability to have multiple users with different access credentials and permissions*
- *how Milestone Mobile allows for instantaneous video access and monitoring from any smartphone or tablet*

LOCATION
Pennsylvania Convention Center
1101 Arch Street
Philadelphia, PA 19107
USA

BOOK CUSTOM DEMO
Click Here
to book
your custom
demo today

About Milestone Systems
Milestone Systems is a global industry leader in open platform IP video management software, founded in 1998 and now operating as a stand-alone company in the Canon Group. Milestone technology is easy to manage, reliable and proven in thousands of customer installations, providing flexible choices in network hardware and integrations with

other systems. Sold through partners in more than 100 countries, Milestone solutions help organizations to manage risks, protect people and assets, optimize processes and reduce costs.

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Stone, Andrea

From: Tim Palmquist <tpa@milestonesys.com>
Sent: Thursday, October 12, 2017 8:08 AM
To: wschwarz@springfieldpolice.net
Subject: Free Custom Demo at IACP

Visit with Milestone Systems™ at IACP 2017

Email not displaying correctly?
View it in your browser.

Dear William Schwarz

Come Visit Milestone Systems™ at IACP 2017

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Stone, Andrea

From: Paul Sibek <PSibek@FaceFirst.com>
Sent: Friday, October 20, 2017 2:09 PM
To: manthony@springfieldpolice.net
Subject: Facial Recognition Follow Up

FaceFirst is the leading provider of facial recognition technology to law enforcement and we recently received testimonials from our clients, here are 3 for your review.

1: I just wanted to send a positive note on two events regarding the new Face First program. Three tablets were upgraded with the test program last week. The very next day we used it on our first call. The residence we were in was a known flop house with several occupants. One male ran out the back into the garage to hide but was located and detained. The male was photographed and entered into the TACIDS system. A 99.97% match was provided on the male. A records check of the name and DOB provided the male had an active felony warrant and was a parolee at large.

2: Wanted to drop you a note on how the facial recognition worked yesterday. Right after our weekly investigations' meeting I was assisting other detectives on a follow up of a kidnapping / robbery. We ended up at the suspect's house and contacted numerous people. I contacted two people who were not involved but were in the suspect's apartment. One had ID and had a PAL warrant and was immediately arrested. The other person, a female, had no ID and gave the name of a real person in AZ. It was obvious this female had been arrested before but the record's check showed no hits of a criminal record. At this point in the investigation she was not a suspect in the kidnapping and we did not have anything else on her we knew she was lying about her identity and were running out of detention time. I sent you the photo of her and within a couple of minutes we had her identified and learned she was a parolee at large. She was arrested for the warrant and identity theft…very helpful tool.

5: I can say that I use it constantly, almost every contact. Recently I was able to identify a non-verbal/uncooperative 5150. This helped me determine that I was dealing with a mental health situation and not a 415/11550.

FaceFirst is the only platform that will compare a live image to a watch list of thousands-millions of images and generate a real-time notification of a match to the correct personnel in seconds.

We would like to offer you a 45 minute WebEx demonstration and show you the capabilities of this remarkable technology and why so many law enforcement agencies are using facial recognition as a layer of safety and security for their officers in the field.

Regards,

Paul

Paul Sibek

FACEFIRST

www.facefirst.com
15821 Ventura Boulevard, Suite 425
Encino, CA 91436

(818) 540-9734 (O)
(661)478-4777 (C)

Stone, Andrea

From: Paul Sibek <PSibek@FaceFirst.com>
Sent: Friday, October 27, 2017 11:21 AM
To: jbarbieri@springfieldpolice.net
Subject: Facial Recognition Follow Up

FaceFirst is the leading provider of facial recognition technology to law enforcement and we recently received testimonials from our clients, here are 3 for your review.

1: I just wanted to send a positive note on two events regarding the new Face First program. Three tablets were upgraded with the test program last week. The very next day we used it on our first call. The residence we were in was a known flop house with several occupants. One male ran out the back into the garage to hide but was located and detained. The male was photographed and entered into the TACIDS system. A 99.97% match was provided on the male. A records check of the name and DOB provided the male had an active felony warrant and was a parolee at large.

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FaceFirst is the only platform that will compare a live image to a watch list of thousands-millions of images and generate a real-time notification of a match to the correct personnel in seconds. In fact our technology will scan 25 million photographs a second.

Here is a link to a video we produced that shows an officer using face recognition in the field.

We would like to offer you a 45 minute WebEx demonstration and show you the capabilities of this remarkable technology and why so many law enforcement agencies are using facial recognition as a layer of safety and security for their officers in the field.

Regards,

Paul

Paul Sibek

FACEFIRST

www.facefirst.com
15821 Ventura Boulevard, Suite 425
Encino, CA 91436
(818) 540-9734 (O)
(661)478-4777 (C)

Stone, Andrea

From: PoliceOne Special Coverage <Newsletter@PoliceOne.com>
Sent: Thursday, December 07, 2017 7:43 PM
To: rcheetham@springfieldpolice.net
Subject: Virtual reality, AI and the future of video in policing

December 7, 2017 | View as webpage
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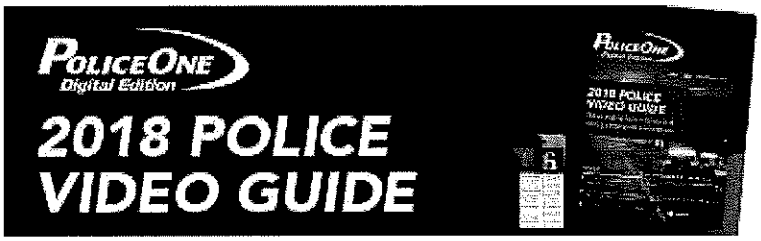
Dear PoliceOne Member,

The last few years have seen a technological revolution in policing with the use of video leading the way. Throughout 2017, we have examined how video is shaping policy, training and community relations as part of our four-part coverage series, **"Policing in the Video Age."**

In the conclusion to our yearlong coverage, we take a look into the future of video in law enforcement, including how the incorporation of artificial intelligence software, augmented reality and live scan facial recognition will transform policing; how FirstNet will aid police use of mobile video technologies; and how virtual reality could transform law enforcement operations and training.

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.

— *The PoliceOne Team*



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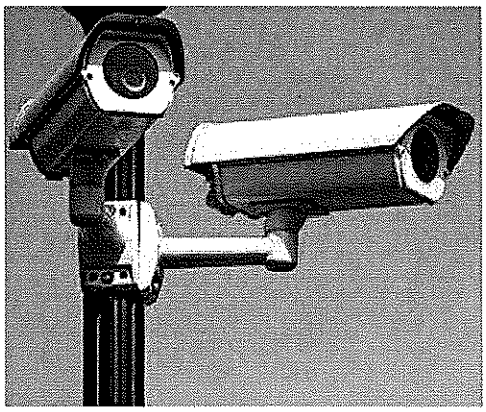
MOTOROLA SOLUTIONS

POLICING IN THE VIDEO AGE

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



By Doug Wyllie, P1 Senior Contributor
Using AI and facial recognition software for real-time crime reporting is the next logical progression in how police are already using existing technology.

How AI will evolve >

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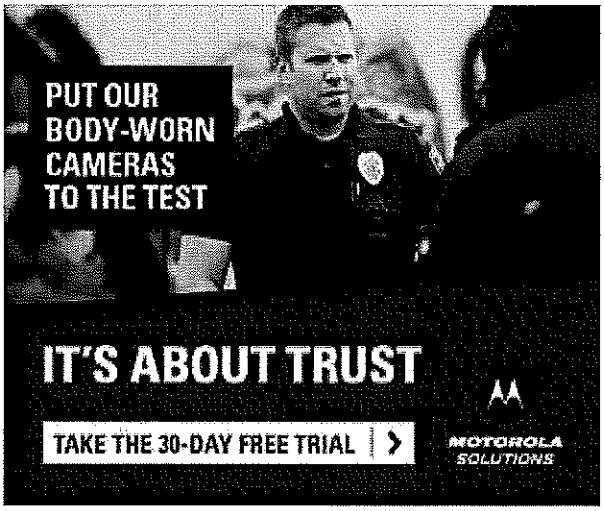

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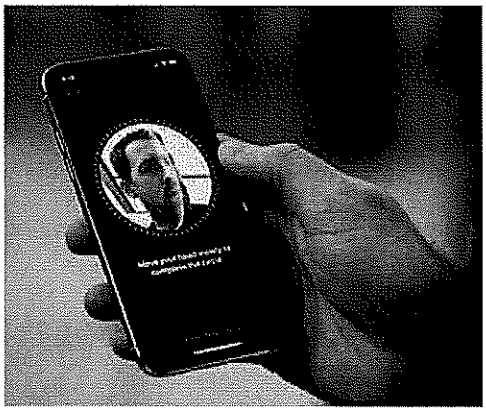

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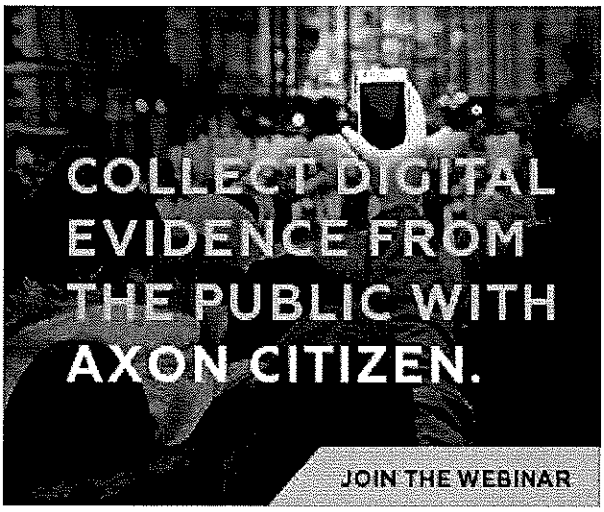

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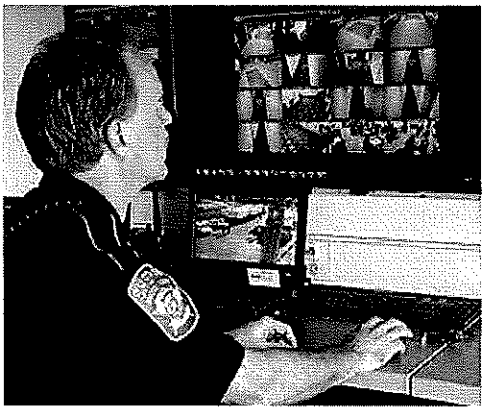

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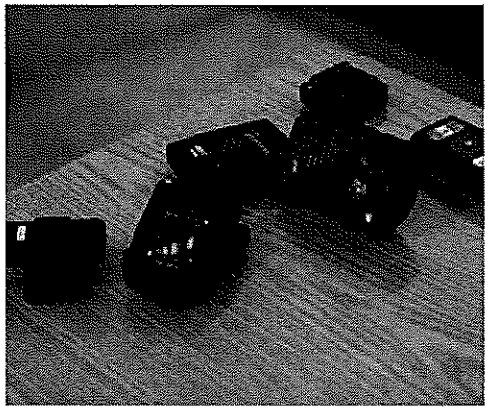

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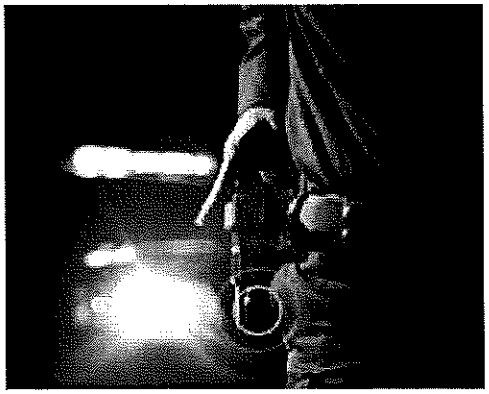

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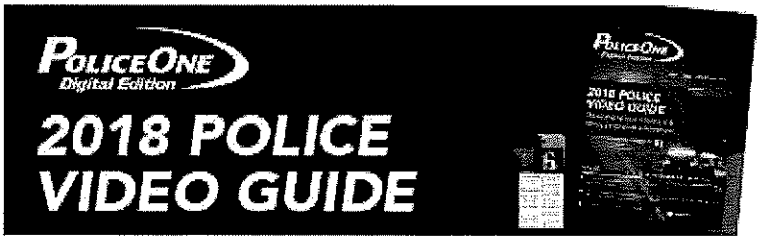

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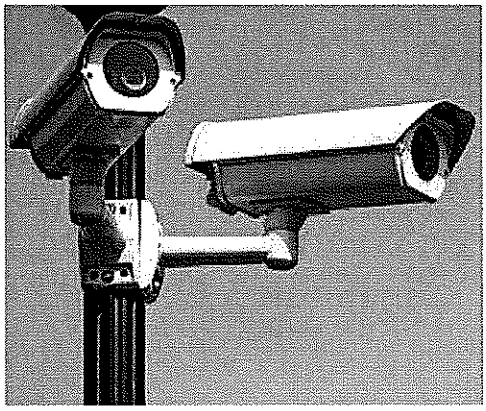

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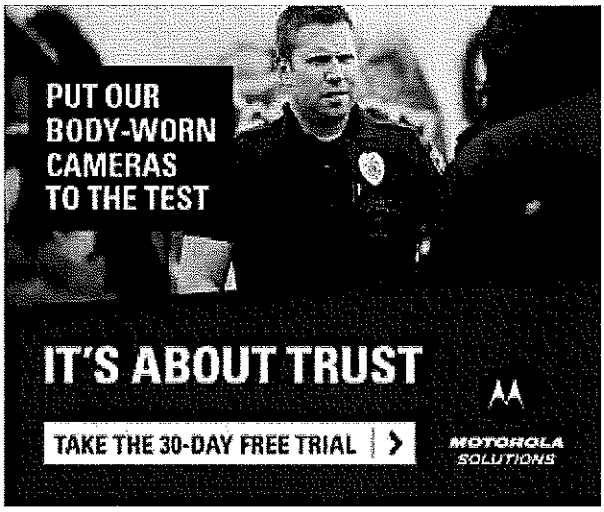

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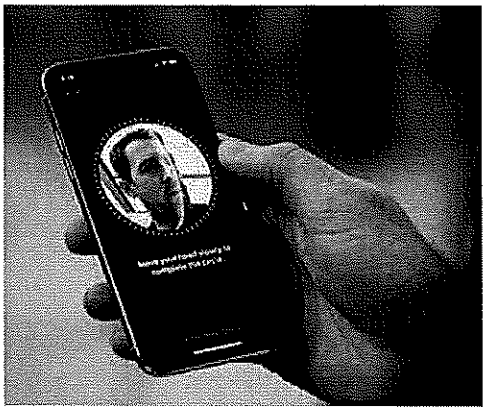

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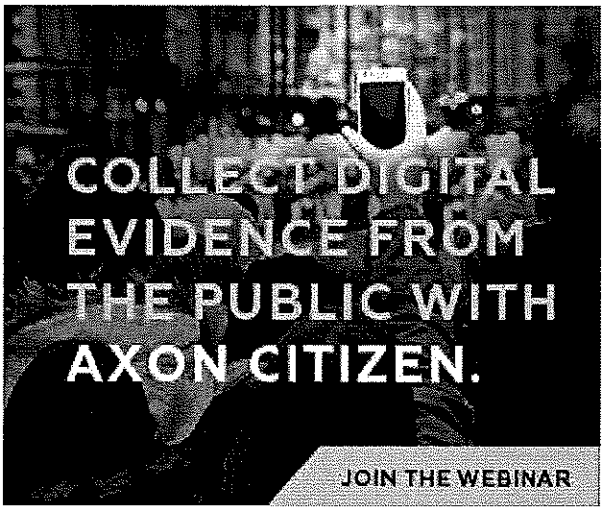

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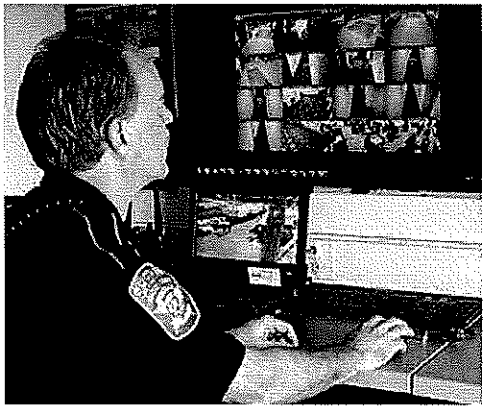

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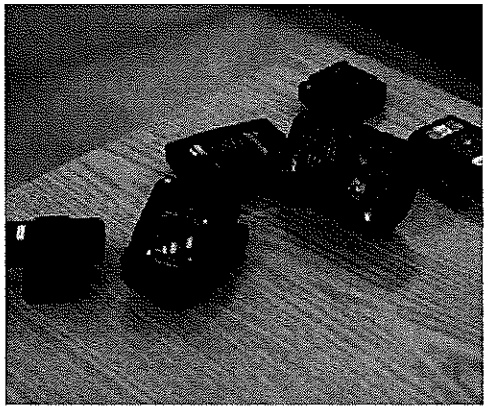

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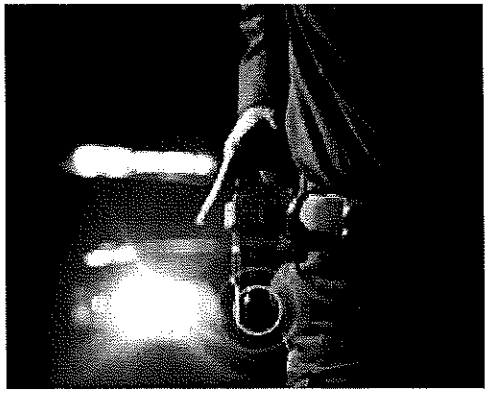

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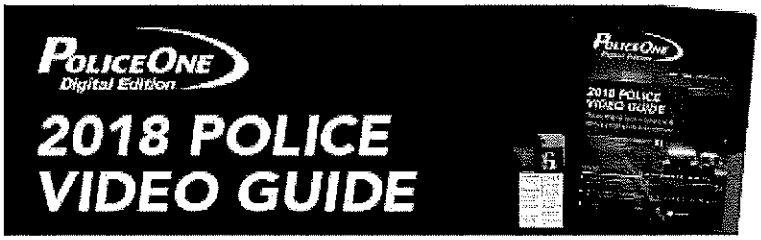

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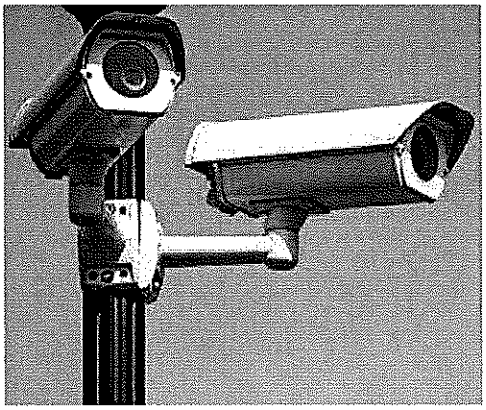

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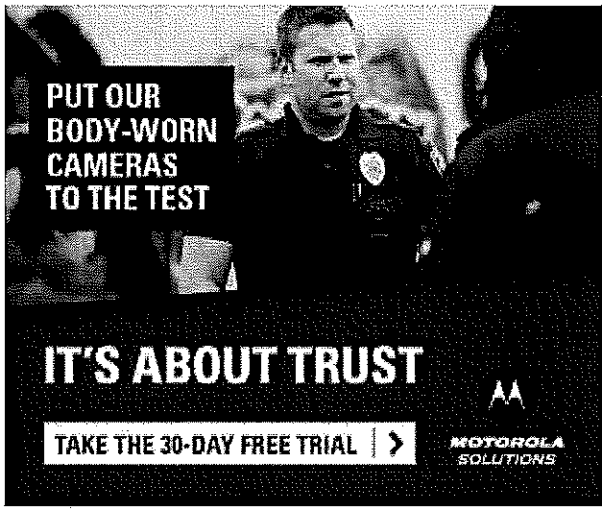

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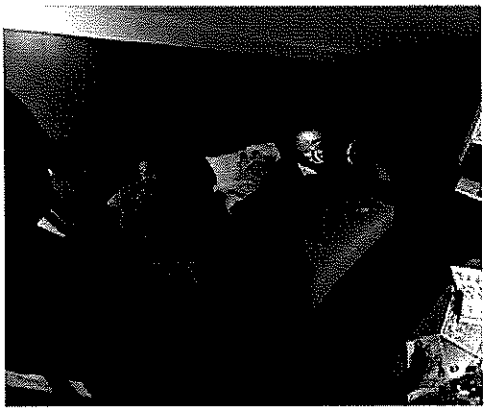

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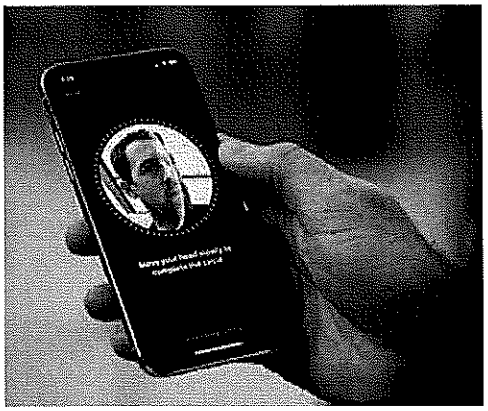

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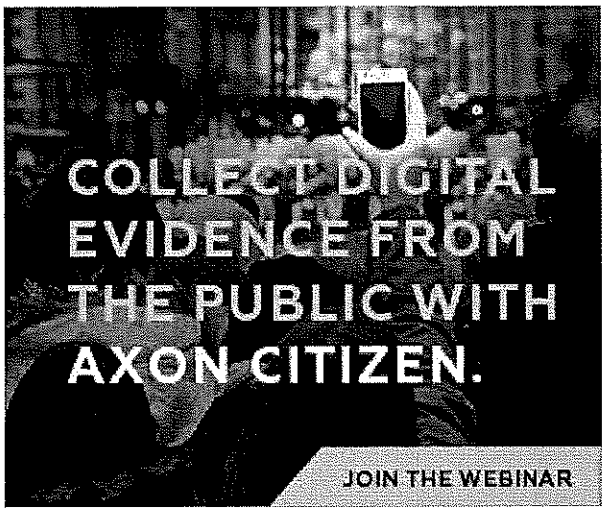

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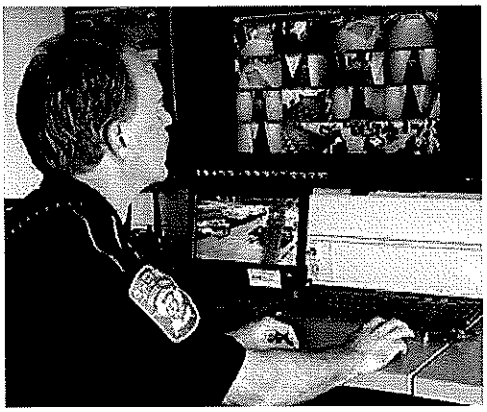

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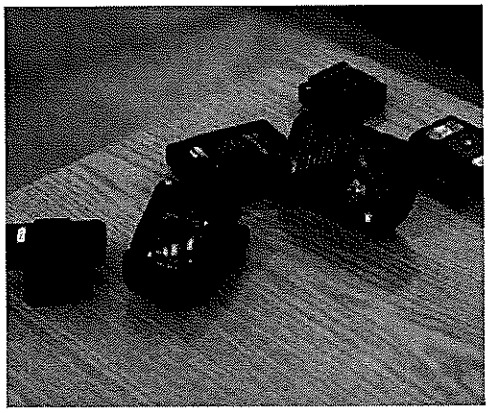

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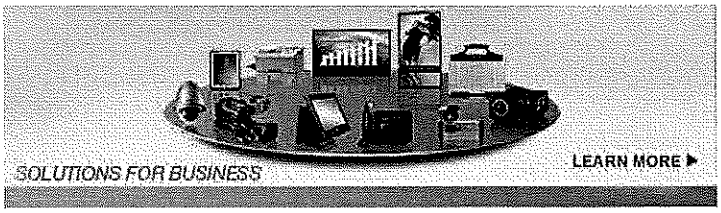
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The Advidia line of IP network video surveillance products provides a wide range of affordable IP camera models and encoders that are perfect for video surveillance projects of any size. **Each network camera and encoder includes a free enterprise Video Management Software (VMS) license, a 3-year warranty, and FREE software updates for the life of the product.**

Since its introduction to the market in 2006, Advidia has been deployed by a large number of campuses across North America looking for a complete video surveillance solution that's cost effective, reliable, and easy to use. Advidia's world-class, U.S. based technical support, advance replacement, and robust features like health monitoring, automated Failover, and video wall add yet another layer of value to its already rich product offering.

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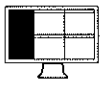

• Powerful Enterprise VMS Software Included

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The Advidia cameras are ONVIF Compliant, which ensures interoperability between IP-based physical security products – regardless of brand. This allows system integrators and end users to easily design and build network video systems with devices from different vendors.

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Advidia offers the most cost-effective solution for any video surveillance project.

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VI Monitor Plus

Key Features

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Recorded Video Management:

- Intuitive access to recorded video from any camera in system regardless of location.
- Frame-by-Frame or variable playback speeds up to 32X.
- View single camera or drag and drop up for Full Layout Synchronized Playback.
- View groups of cameras via drag and drop.
- Slider bar provides quick access to events.
- Digital zoom on Live and recorded video.
- Synchronized video and audio playback.
- Instant replay of last 30 seconds of recorded video (Via Rule)
- Create a clip with use of guides marking time interval
- Save clip to local client or server.
- Continuous, motion activated, scheduled, event or Trigger based recording.
- Record up to 30 FPS or as little as 1 image per second, hour or day.
- Record always at low FPS and transition to higher FPS on motion events or alarm.
- Pre- and Post-motion recording.
- Support for camera and server side motion detection.
- Create sensitivity zones in Windows client or camera configuration.
- Motion Event logs provide quick review of video associated with motion or alarm events.
- Access recorded video from other non-local servers added to the server list.
- Graphical timeline highlights motion events.
- Progressive download speeds for slow-speed connection.
- Automatically manages files and disk space.
- Specify maximum Storage retention by camera.
- Enhanced Timeline with Motion vs Fulltime Indications.
- Most complete Panoramic/360° De-warped support of any VMS manufacturer.

Video Exporting:

- Intuitive Viewing Clients require little to no End-user training.
- Clips can include Optional 128bit encrypted watermark, server based date/time stamp, and camera name.
- Recorded video is saved in cameras native compression format and placed in AVI or EXE container for easy universal playback.
- Improved Video Exporter with central options.
- Exported clips include audio.
- Multiplex video export of up to 9 video streams in single AVI file.

Live Video:

- Full-featured Windows, Web, and Mobile Clients included for free.
- iPhone and iPad Vi Mobile app available for free through Apple App store.
- Android Vi Mobile app available for free through the Google Play.
- Mobile App support, live and recorded video streaming, Maps, and Control
- functionality, and PTZ camera control. Browser agnostic Web Client works with many popular browsers, and has full support for Chrome and IE.
- VI MonitorPlus: Workspace Home Screen with Custom Quick Launch options.
- Workspaces : Tabs which allow for easy multi-tasking.
- Dynamic aspect ratio control for complete camera layout from 16:9 or 4:3.
- High Speed Video Viewing via Active X for IE only.
- VI Monitor for MAC
- Quickly navigate between cameras from any server using Windows Explorer tree structure
- Unlimited user seats for viewing clients
- Create customized layouts and layout groups (MOVE)
- Create custom layout by dragging and dropping cameras.
- Predefined layouts stored in the database can pull cameras from multiple servers, restricted by security level
- Camera touring or Layout sequencing
- 180° stitched layouts for supported cameras.
- Single, Quad and Panorama views for fisheye 360° cameras
- Advanced camera features from Panasonic, Axis, Sony, Sentry360, Pelco and ImmerVision.
- Easy PTZ control options included on-screen overlay Via collapsible right menu bar.
- Cycle PTZ presets, pausing for specified interval
- PTZ control with USB Joysticks
- Option to lock down non-admin users from PTZ controls
- PTZ Prioritization – Users can be ranked to determine who has PTZ operations at a specific time.
- Search box allows quick access to any camera or server - search by partial name or IP address. (WEB CLIENT only)
- Push live video pop-up windows to other logged in users.
- 2Way audio allows operators to interact with video.
- • Create Covert cameras by removing from navigation.
- High Performance option renders video in real time.
- Run in Full Screen mode with limited menus.
- Multi monitor support Via Free floating Workspaces.
- Video Wall app supports up to 64 monitors.
- Operators can push single camera or layout to a Video Wall.
- Motion alerts displayed for each camera.
- Option to play sound on motion alarm.
- Launch clients in full screen mode to predefined layouts.
- Public View App displays live images directly from camera without connecting to a server.
- Lane Viewer App displays live images along with card holder picture and information to verify identity.

Facility Maps:

- Easy Map creation. Setup requires a JPEG, BMP or GIF images of layout, which can be populated by drag and drop Icons of doors, camera, and panels available on server.
- Create Multilevel mapping provides quick access to multi-level layouts.
- Live icons provide system info such as door states or live views with a click of a mouse.
- Zoom into maps or navigate between multiple layers.
- Quick access to recorded video from facility maps.
- Launch specified facility map on startup.
- View maps from Windows, Mobile, or Web Clients.
- Mouse over Layout icons to switch live displays to groups of cameras in the area.
- Access Control dynamic menu through Facility Maps, provide detailed information through one central location.

Notifications & Automation:

- Pop-up live windows of alarmed cameras.
- Red outline in camera layout on alarm conditions.
- Play audio file on alarm to alert operator customizable per user.
- Pop-up window with detailed instructions for operator.
- E-mail or send Custom Messages text Flashback Images, Interval snapshots, or Video Clips.
- Alerts can be directed to specific users or groups.
- Powerful Rules Wizard allows easy configuration to take actions after an event.
- Motion alerts displayed for each camera.
- Option to play a sound on motion alarm.

- Send JPEG snapshots on an interval or on motion.
- Alter operators of camera side Analytic events.
- Using Camera Analytic, such as Tripwire, count people.
- Video Bookmarking, for tracking events on timeline with notations attached.
- entering and exiting facility to keep running total and alert if threshold exceeded.

Enterprise Functionality

- Support for unlimited cameras and recording servers.
- Developed from open technologies based around Microsoft .Net and SQL platforms, allowing easy integration with 3rd party application via the well-defined SQL tables.
- Distributed login to any server prevents single point of failure
- Optimized for Centralization: Includes centralization of Servers,
- User database, cameras, layouts, and full system management
- Support for both centralized and distributed architectures
- Use existing SQL Server infrastructures or included SQL Express
- Centralized Management for all camera configurations &all servers are done from one easy-to-use setup screen.
- Clients can connect to a single IP address to access the entire system.
- Assign individual camera permissions to users or groups.
- All system and user settings are stored in SQL database.
- Automatic Failover.
- Health Monitor – comprehensive monitoring and alerting of system status.
- Audit Trail: User logins & configuration changes tagged in a SQL.
- Custom application Plugins: IE Point of Sales, GPS Location, and More.
- Automatic upgrade of client applications.
- Complete system performance statistics including – Storage, Bandwidth, resolution, format and frame Rate.
- Hidden Views: Users only see assigned views regardless of number of servers.
- Export camera and server information in Excel format.
- Camera Maintenance logging and tracking .Net-based.
- Software Development Kit.
- Multi Languages Available.
- Camera Setup Template Support.
- Review recorded events across Multiple cameras quickly Via smart
- Thumbnails search for precise investigation. (7.1)
- Customizable Server and Cameras Groups.
- Customizable Facility Maps and View Groups.
- Deep integration for over 4,100 camera models from 154+ manufacturers.
- Universal camera driver provides support for almost all other
- cameras via ONVIF, RTSP or HTTP
- Multi-streaming
- Camera auto discovery
- Send live video to Axis Decoders
- Rules and events can Trigger Digital Inputs and Outputs along with .exe applications or batch files.
- Robust scalable design, with a pure 64-bit Server and Client application that allows server & client software to efficiently take advantage of full machine memory.
- Email support for SSL and alternate ports, supporting Gmail and Hotmail.
- VI includes MonitorCast : a fully integrated, enterprise level, Mercury based, access control platform at no cost.
- VI has full support for Virtualization: Includes VMware, Hyper-V, XenServer.
- Action Center for all: recorded video logs, notifications, and system alerts.

Security:

- Video Tampering & Validation built within the Software.
- Privacy Zones for sensitive areas for any camera in layout.
- SSL certification needed to secure web client transmissions
- Multi-level security including restriction of setup, management, live and recorded viewing, PTZ operation, access to layouts, facility maps, rules and clip creation.
- Enterprise-wide user management tool for local users.
- Authenticate users with a Video Insight user database or with integration of users and groups imported from Active Directory, & LDAP. Assign individual camera permissions to users or groups.
- Comprehensive log of all changes to system
- Option to restrict users from logging in from multiple locations
- Limit users to a single login per username.
- Server Software runs as a Windows Service, for easy log retention.
- IP Server connects to all cameras; viewing clients in turn are connected to the IP Server to prevent direct camera connection
- Option to restrict users from accessing system from multiple locations.

Storage:

- Flexible Open storage design with no limits on support for internal or external storage arrays such as NAS, SAN, and ISCSI drives.
- Support for Pivot3 Cloudbank failover architecture and Dell EqualLogic solutions.
- Option to move recorded video from either cameras or servers, on a set schedule, for long term storage or Archiving needs.

Performance

- Full Support for GPU transcoding, and Hardware acceleration for greater stability, expandability, and higher video quality.
- 4Gbs bandwidth throughput per OS, for unprecedented system scalability and performance.
- System resource load balancing for optimized performance.
- Support for multiple 4k camera loadout and 30 FPS playback.
- System Support for 40 Megapixel IP cameras at 30FPS playback.
- No limitations on software for number of viewing client connections.

Easy Licensing

- Simple Per camera licensing structure, available in single camera increments.
- No extra licensing costs for client applications, or annual maintenance fees.
- No base or server license fees when using genuine Video Insight servers.
- Individual camera's MAC address not required for easy servicing and replacements.
- Multi-stream connections from one camera only require one license.
- Only 1 license needed for most 180° and 360° multi-sensor cameras.
- Panasonic i-Pro and Advidia cameras require no camera licensing.

Support

- Lifetime U.S Based technical support included: Monday- Saturday for trouble shooting, configuration support, and remote assistance.
- Unlimited Live Web-Based training included with Video Insight.
- Unlimited software updates included for version.

Access Control Integration:

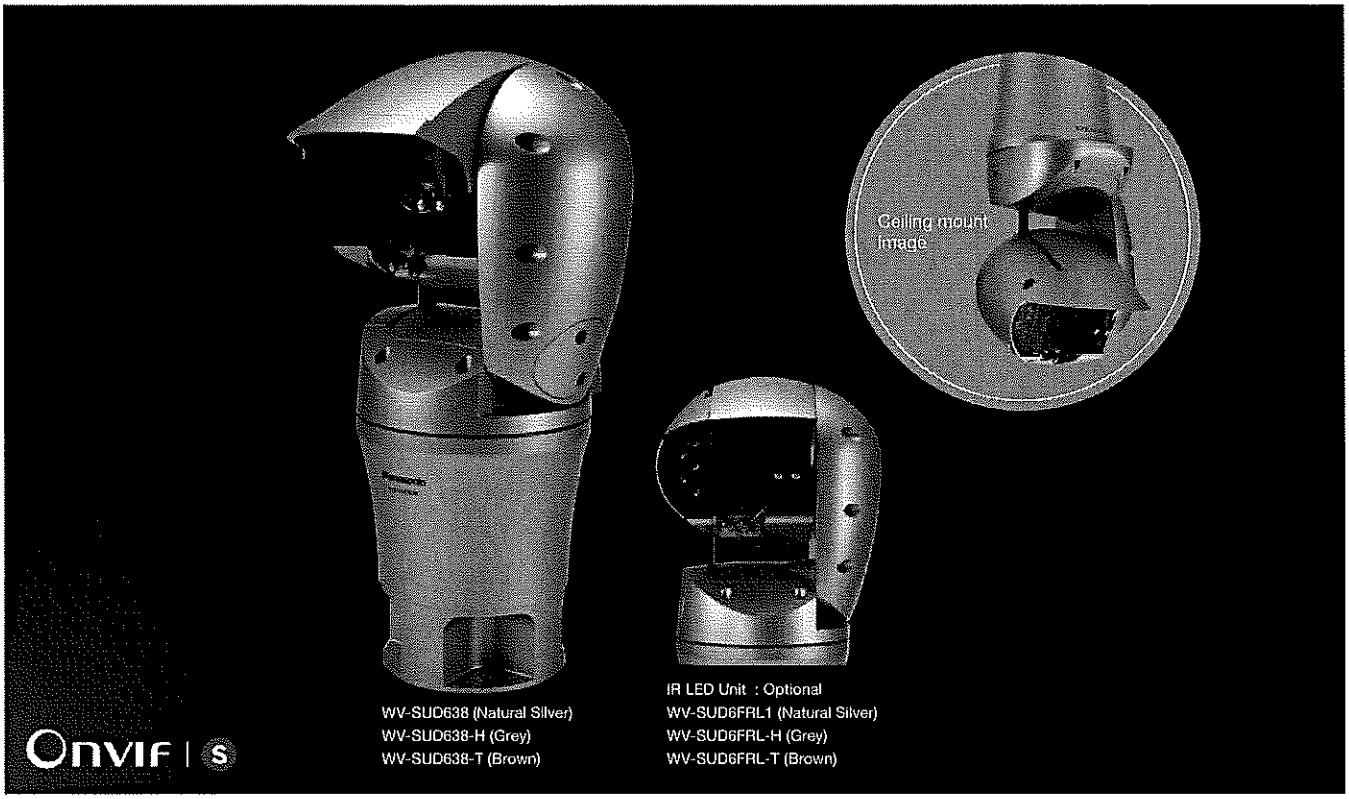
- Maxxess
- MonitorCast4.X
- Badge Pass
- Wren Solutions
- Paxton
- Sureview
- IMRON
- RBH Axiom V(AX5)
- Gallagher
- Open Options
- Infinias
- Lenel
- Secure
- Continental
- Isonas
- AMAG
- DSX
- RS2
- S2
- Blackboard
- Software House

Panasonic
BUSINESS

Anti-severe weather
PTZ network camera

WV-SUD638

AeroPTZ



High durability under arctic -to- desert weather conditions and salty gust winds for tough operations

Key Feature

- Full HD (1080p) 60 fps, x30 zoom lens
- **Built-in wiper and Auto defroster**
- Wind load durability **60 m/s (135 mph)** (operation)
  80 m/s (180 mph) (non-destructive)
- **Video SAS (Stability Augment System)** for high-class image stabilization
- "Sphere vision" provides **360° 3D viewing** (Pan : 360° endless, tilt : 90° to -90°)
- Temperature **-50 °C to +60 °C (-58 °F to +140 °F)***
- **IP67**, IP66, IK10 certified
- **Optional IR LED light** (up to **150 m/500 feet**, zoom interlocking)
- **Anti-salt air corrosion protection** ideal for seaside operations
- **Smart coding mode** for additional compression

* Natural Silver model only. Not available IR LED Unit when the temperature is over 55 °C. Grey & Brown model : up to +55 °C.

Design Concept — Camera Aerodynamics

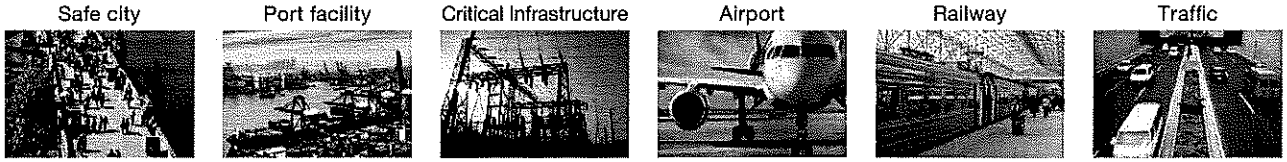
1 **Aerodynamic Spheroid** ····· "360 deg. aerodynamic spherical design" minimizing interference drag for more visual stability.

2 **Intelligent Radius** ····· Unique radius bodyline keeps snow and dirt off.

3 **Glass fiber body** ····· Deliver excellent strength, and anti-corrosion

Industry examples

Safe city | Port facility | Critical Infrastructure | Airport | Railway | Traffic



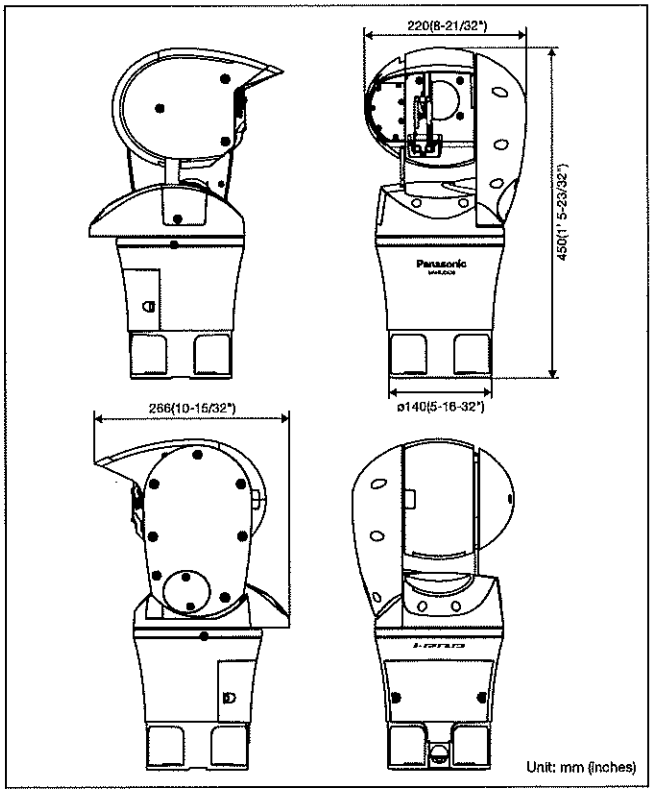
Specifications

Camera	Image sensor	Approx. 1/3 type MOS image sensor
	Minimum illumination	Color : 0.06 lx (F1.6, Maximum shutter : Off(1/30 s), AGC : High) 0.004 lx (F1.6, Maximum shutter : max. 16/30 s, AGC : High)* BW : 0.02 lx (F1.6, Maximum shutter : Off(1/30 s), AGC : High) 0.001 lx (F1.6, Maximum shutter : max. 16/30 s, AGC : High)* 0 lx (F1.6, Maximum shutter : Off(1/30 s), AGC : High, when the IR LED (Optional) is lit) * Converted value
	Super Dynamic*1	Dynamic Range 105 dB typ.
	Image settings	Gain (AGC), White balance
	Image compensation	Adaptive black stretch, Back light compensation (BLC), Fog compensation, High light compensation (HLC), Digital noise reduction
	Shutter speed	[2 mega pixel [16 : 9] (60 fps mode)] Off(1/60) to 1/10000 Other than [2 mega pixel [16 : 9](60 fps mode)] Off(1/30) to 1/10000
	Day/Night (ICR)	Off / On / Auto1(Normal) / Auto2(IR Light) / Auto3(SCC)
	IR LED Light (Optional)	Off / Auto (High / Mid / Low) Irradiation distance : 150 m (500 feet)
	Image stabilization	On / Off *Hybrid image stabilizer
	Privacy zone	Gray / Mosaic / Off (up to 32 zones available)
	Camera title on screen	Up to 20 characters (alphanumeric characters, marks)
	Video Motion Detection (VMD)	On / Off, 4 areas available
Lens	Zoom Ratio	30x / 45x with HD extra optical zoom (at 1280 x 720) (Motorized zoom / Auto Focus)
	Digital (electronic) zoom	x1, x2, x4
	Focal length	4.3 mm - 129 mm (3/16 inches - 5-3/32 inches)
	Maximum Ratio Aperture	1 : 1.6 (WIDE) - 1 : 4.7 (TELE)
	Focus range	2.0 m - ∞
	Aperture range	F1.6 (WIDE) - Close
	Angular field of view	[16 : 9 mode] Horizontal : 2.3° (TELE) – 64° (WIDE) Vertical : 1.3° (TELE) – 38° (WIDE) [4 : 3 mode] Horizontal : 1.8° (TELE) – 50° (WIDE) Vertical : 1.3° (TELE) – 38° (WIDE)
Pan/tilt unit	Panning Range	360° endless
	Panning Speed	Manual : approx. 0.065°/s to 100°/s Preset : up to approx. 200°/s (Except when IR LED Unit is equipped, forward tilt mount, frozen.)
	Tilting Range	Upright : –45° to +90° Forward tilt : –90° to +90° Hanging : –90° to +30°
	Tilting Speed	Manual : approx. 0.065°/s to 100°/s Preset : up to approx. 200°/s (Except when IR LED Unit is equipped, forward tilt mount, frozen.)
	Preset Positions	256 positions
	Auto Mode	Auto track / Auto pan / Preset sequence / 360 map-shot / Preset map-shot / Patrol
	Self Return	10 s to 60 min
	Tilt flip	On / Off
	Map Shot	360° map shot / preset map shot
Network	Network IF	10Base-T / 100Base-TX, RJ45 connector
	Image Resolution H.264 JPEG (MJPEG)	•2 mega pixel [16 : 9] (60 fps mode / 30 fps mode) H.264 : Minimum 1,920 x 1080 JPEG : Minimum 1,920 x 1080 •1.3 mega pixel [4 : 3] (30 fps mode) H.264 : Minimum 1,280 x 960 JPEG : Minimum 1,280 x 960
	Image compression method	H.264 Transmission Mode : Constant bit rate / Variable bit rate / Frame rate priority / Best effort / Advanced VBR Transmission type : Unicast / Multicast JPEG Image Quality : 10 steps Multiple streams individually configurable
	Intelligent compression	Smart coding, VIQS (ROI)
	Audio compression	G.726 (ADPCM) 32 kbps / 16 kbps G.711 64 kbps AAC-LC*2 64 kbps, AAC-LC(High quality)*2 64 kbps / 96 kbps / 128 kbps
	Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP IPv4 : TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP, SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP
	Maximum concurrent access number	Up to 14 users (Depends on network conditions)
	Mobile terminal compatibility (As of September, 2016)	iPad, iPhone, iPod touch (iOS 4.2.1 or later) Android™ mobile terminals

Environment	Water and Dust Resistance *3	Main body : IP66, IP67, IEC60529 measuring standard compatible, Type 4X(UL50), NEMA 4X compliant Waterproof RJ45 connector, Waterproof power connector, Waterproof I/O connector
	Shock resistance	Compliant with IK10 (IEC 62262)
	Salt damage resistance	ISO14993 compliant
	Resistance to wind	60 m (135 mph) (Operation) / 80 m (180 mph) (Installation limit)
General	Power source	AC100 to 240 V, 50 Hz / 60 Hz Tested PoE Injector* (60 W) *with limitations
	Operating environment	Ambient operating temperature : –50 °C to +60 °C (–58 °F to 140 °F)* (When using AC100 to 240 V) –30 °C to +60 °C (–22 °F to 140 °F)* (When using tested PoE Injector) (Power on range : -30°C to +55 °C(–22 °F to 158 °F)) *Natural Silver model only. Not available IR LED Unit when the temperature is over 55 °C. Grey & Brown model : up to +55 °C. Ambient operating humidity : 10 % to 100 %
	External I/O terminals	ALARM IN 1(DAY/NIGHT IN, Auto time adjustment), ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT), Relay connection (x1 for each)
	line input	ø3.5 mm monaural mini jack Input impedance : Approx. 2 kΩ (unbalanced)
	For line input	Input level : Approx. –10 dBV
	Audio output	ø3.5 mm stereo mini jack (monaural output) Output impedance : Approx. 600 Ω (unbalanced) Using Amplifier built-in external speaker Output level : –20 dBV
	Dimensions	220 mm (W) x 450 mm (H) x 266 mm (D) (8-21/32 inches (W) x 1ft 5-23/32 inches (H) x 10-15/32 inches (D))
	Mass (approx.)	Approx. 8 kg (17.64 lbs)
	Finish	Main body : High-strength resin of salt damage resistance WV-SUD638 : Natural Silver WV-SUD638-H : Gray (N7) WV-SUD638-T : Brown (Environmental color) Front glass : Glass, Clear

*1 Super Dynamic function is automatically set off on 60 fps mode.
*2 When "AAC-LC (HIGH QUALITY)" is selected, there are limitations about the following function.
· HTTPS is not available.
· The maximum concurrent access number is limited to 5
*3 Only when installation work specified in Installation Guide is properly performed and appropriate waterproof treatment is performed.

Appearance



Unit: mm (inches)

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Important
– Panasonic cannot be responsible for the performance of the network and/or other manufacturers' products used on the network.

• Design and specifications are subject to change without notice.
• Masses and dimensions are approximate.

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(2A-167EL)

Stone, Andrea

From: Joel Griffin, Editor, SecurityInfoWatch.com <SIW@news.southcommmail.com>
Sent: Tuesday, February 20, 2018 3:31 PM
To: clandrau@springfieldpolice.net
Subject: Security Frontline: Facial Recognition Bridges Consumer to Commercial

View online.

SecurityInfoWatch
SECURITY FRONTLINE
a newsletter for security executives

FEATURED STORY

Facial recognition crosses both security, consumer applications

By **Steve Lasky**

As consumers accept facial IDs on their smartphones, security's comfort levels in the public sector grow

TOP NEWS

Phishing emails: The ticking time bomb in your inbox

It is time for security leaders to look beyond perimeter-based tools

Facebook vows to enhance security after Russian indictments

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South Florida high school massacre hits close to home for one security practitioner

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A new flavor of hacking, courtesy of third-party code

Retailers say data breach notification law should cover all affected businesses and 'leave no holes'

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By **John McCumber**

I was standing on a street corner in Santiago, Chile. I looked at my watch and realized I would be late to meet...

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Vicon's new 2MP and 4MP turret cameras

Lorex 4K IP security camera

IoT-based S-Badge Click here for more information

Oncam's Evolution 180 Camera Range

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Video: Surviving an active shooter event

U.S. Security Associates offers practical advice for responding to mass shooting scenarios

EVENT WATCH

RSA Conference 2018

RSAConference 02/13/18 9:00 AM CT - 02/17/18 4:00 PM CT

San Francisco, CA, US

https://www.rsaconference.com/

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Fort Atkinson, WI 53538

Stone, Andrea

From: NECToday <nectoday@nectoday.com>
Sent: Thursday, February 22, 2018 11:25 AM
To: William Schwarz
Subject: NECToday: Is it Time to Take a New Look at Facial Recognition?

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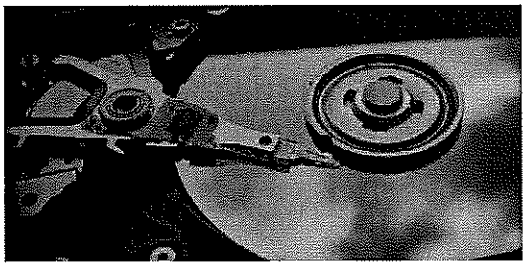
NEC Today

Time to Take a New Look at Facial Recognition

Federal efforts to improve biometric identification and authentication increasingly center on facial recognition. Facial recognition technology has already improved mission delivery in dynamic situations such as: • Port-of-entry Screening • Crowd Surveillance • Cybersecurity Authentication • Counter Terrorism In each case, the speed and accuracy of the identification is critical to the success of the mission. To meet these challenges, ...

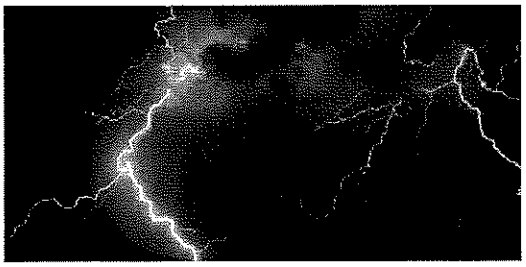
Read more.

How to Safely Manage the Massive Influx of Data Growth



We are living in an ever-present, data-driven economy. Connected devices and IoT are driving up the collection and distribution of data and creating capacity and management challenges like never before. Not only does the data need to be securely stored, it needs to be available within seconds and 24/7. CIOs and IT directors must identify and face these data management ...

Read more.



Keeping Your Cool When Severe Weather Hits

Extreme weather events have caused massive destruction across North America in recent months. In early 2018, the eastern part of the U.S. experienced a "bomb cyclone" consisting of severe cold temperatures, massive amounts of snow and lots of misery. Last summer and early fall, the Gulf Coast and Caribbean were hard hit by hurricanes during one of the most severe ...

Read more.

Stone, Andrea

From: NECToday <nectoday@nectoday.com>
Sent: Tuesday, April 03, 2018 5:45 PM
To: William Schwarz
Subject: NECToday: Coming to a Terminal and Airport Near You...

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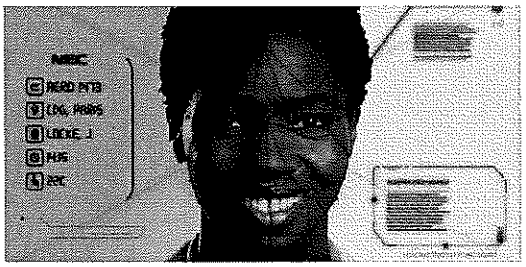
NEC Today



Coming to a Terminal and Airport Near You...

In a nationally televised report, NBC National News covered its initial rollout! US Customs and Border Protection has now installed it in eight airports and written extensively about its benefits! Touting a "year of innovation," Delta Airlines has them in their Hartsfield-Jackson International Airport VIP lounge in Atlanta and using them for ticketless boarding! What is it? It is NEC's ...

Read more.

Time to Take a New Look at Facial Recognition

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Read more.

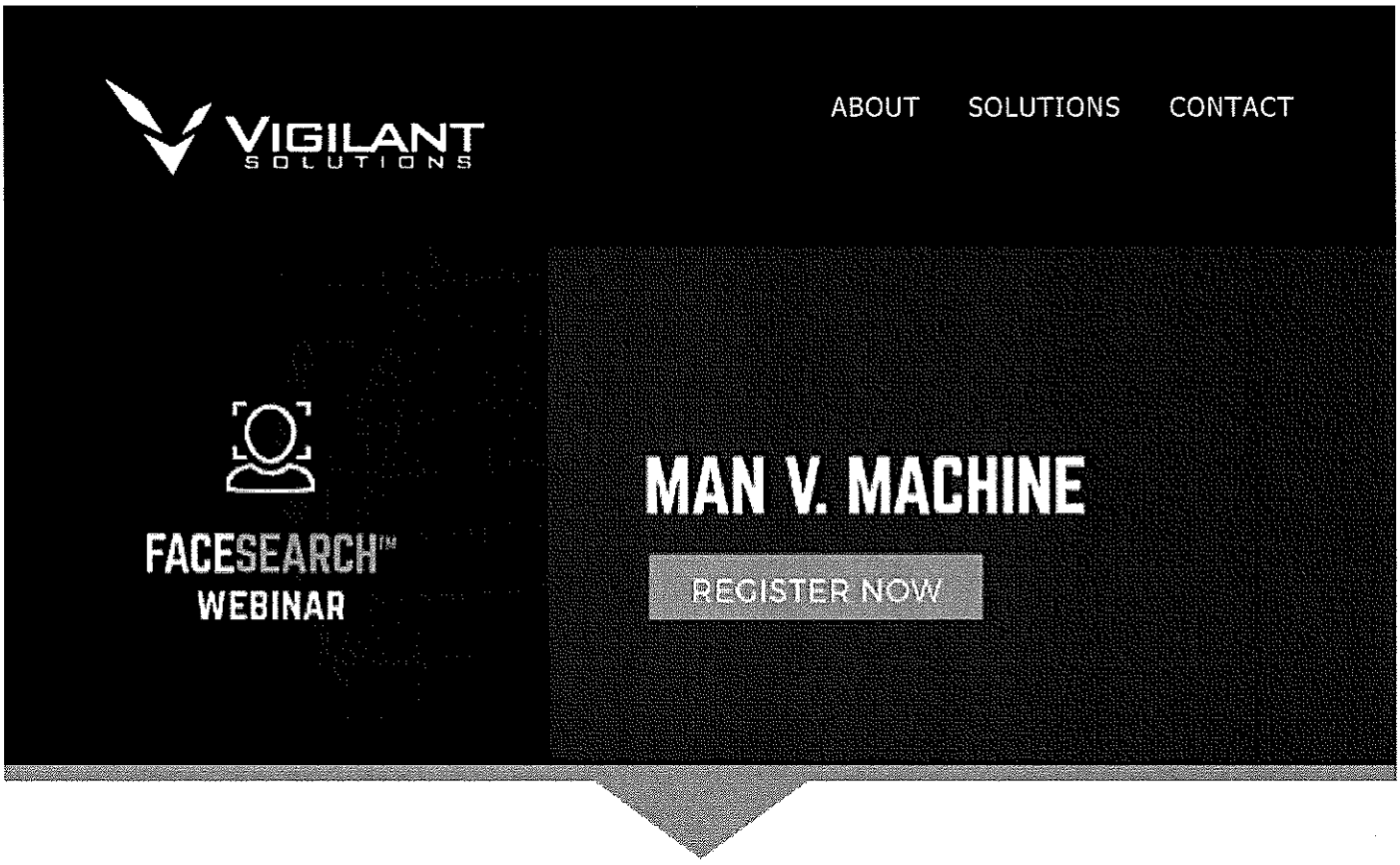
Announcing NEC's New LPGA Microsite

NEC Corporation of America, Official Technology Sponsor of the LPGA (Ladies Professional Golf Association), proudly announces the launch of our new LPGA-focused microsite. NEC is committed to supporting the LPGA organization in its mission to provide a safe and enjoyable environment for its players, guests and tournament staff. With the creation of this dedicated site, NEC brings together specific tournament ...

Read more.

Stone, Andrea

From: Roger Rodriguez <bevigilant@vigilantsolutions.com>
Sent: Tuesday, April 10, 2018 10:10 AM
To: wschwarz@springfieldpolice.net
Subject: Man v. Machine- Facial Recognition Webinar- register today!



JOIN US

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.

REGISTER NOW

WHEN Thursday, April 19, 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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Sent: Tuesday, April 10, 2018 10:16 AM
To: mriggins@springfieldpolice.net
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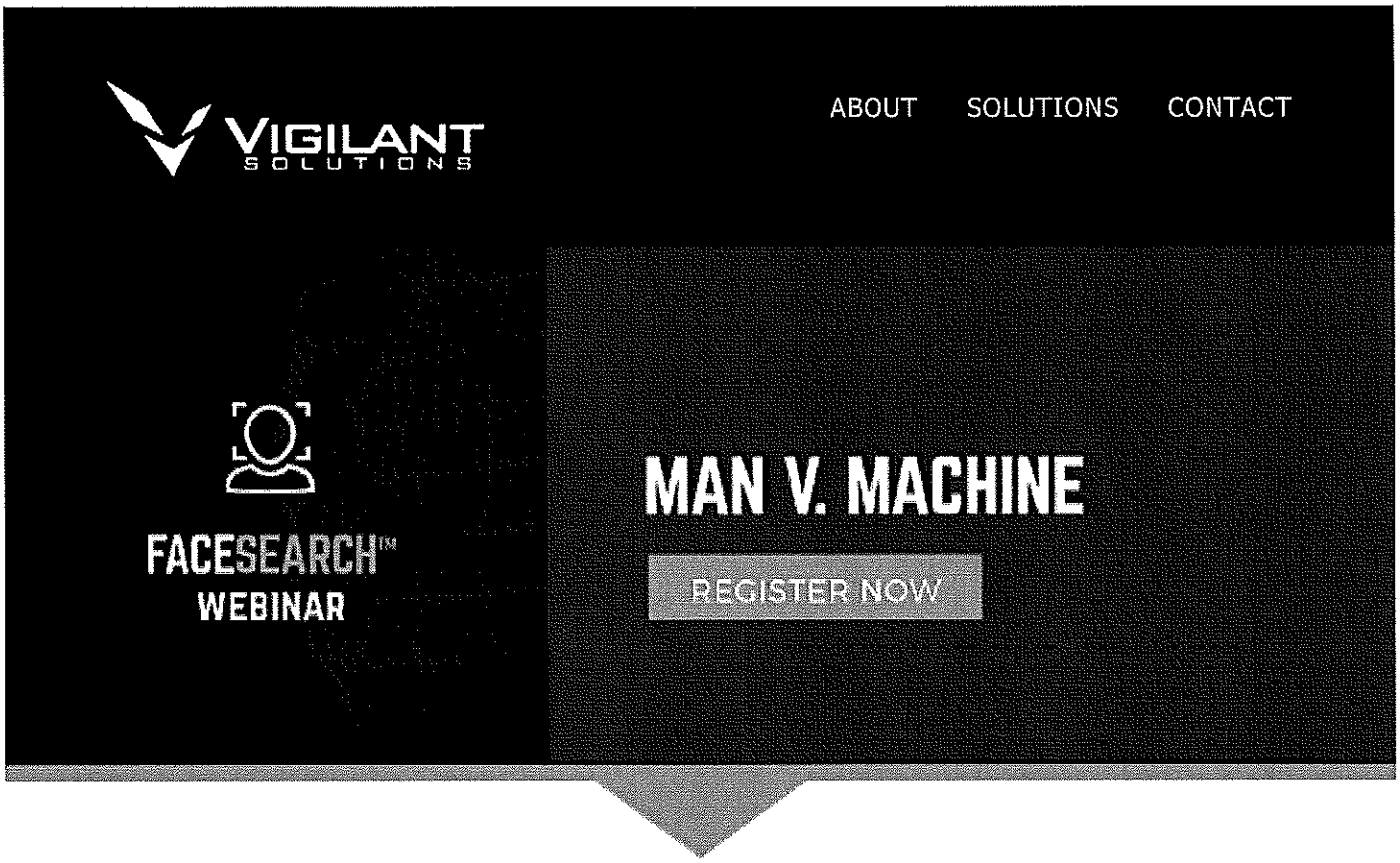

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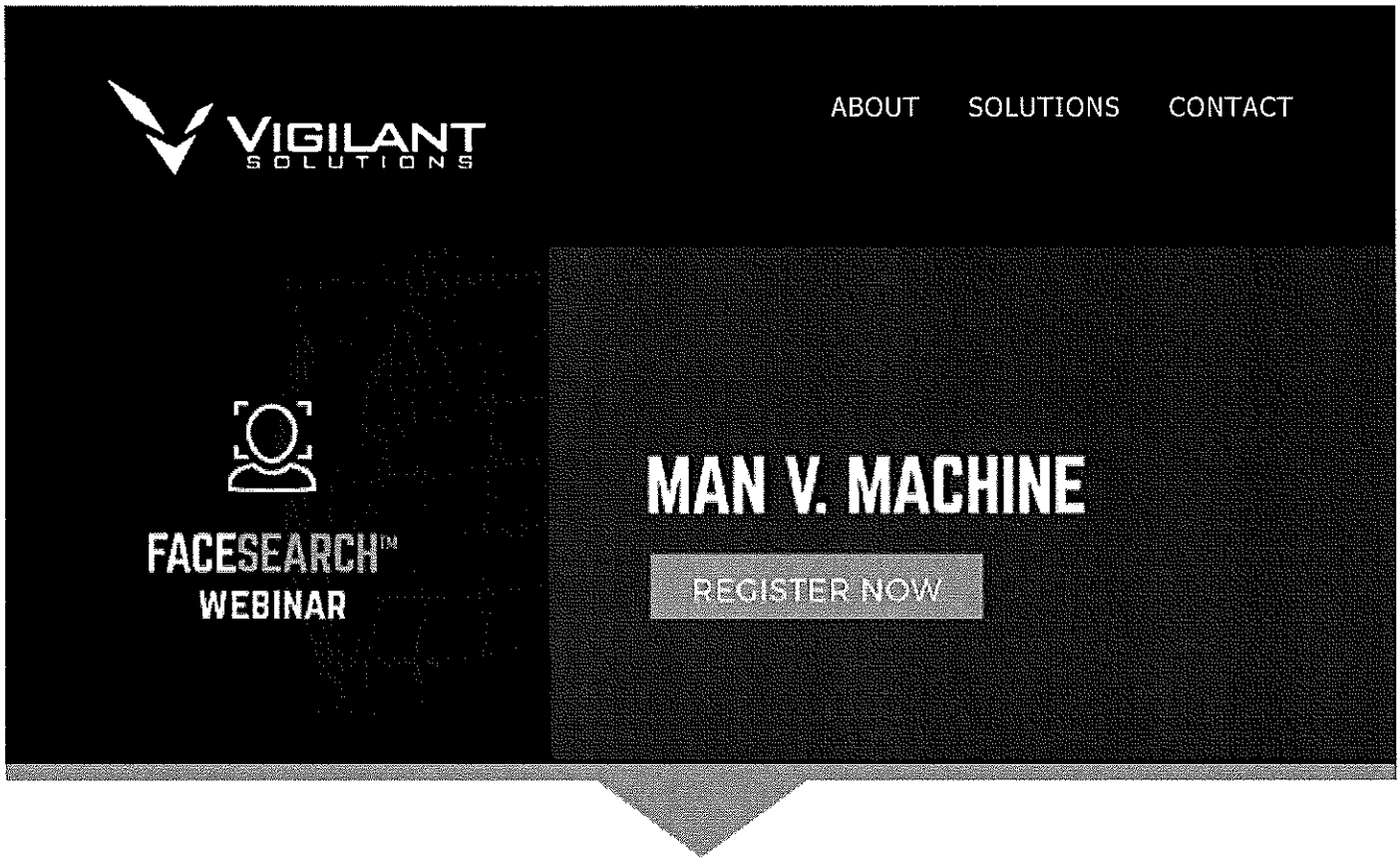

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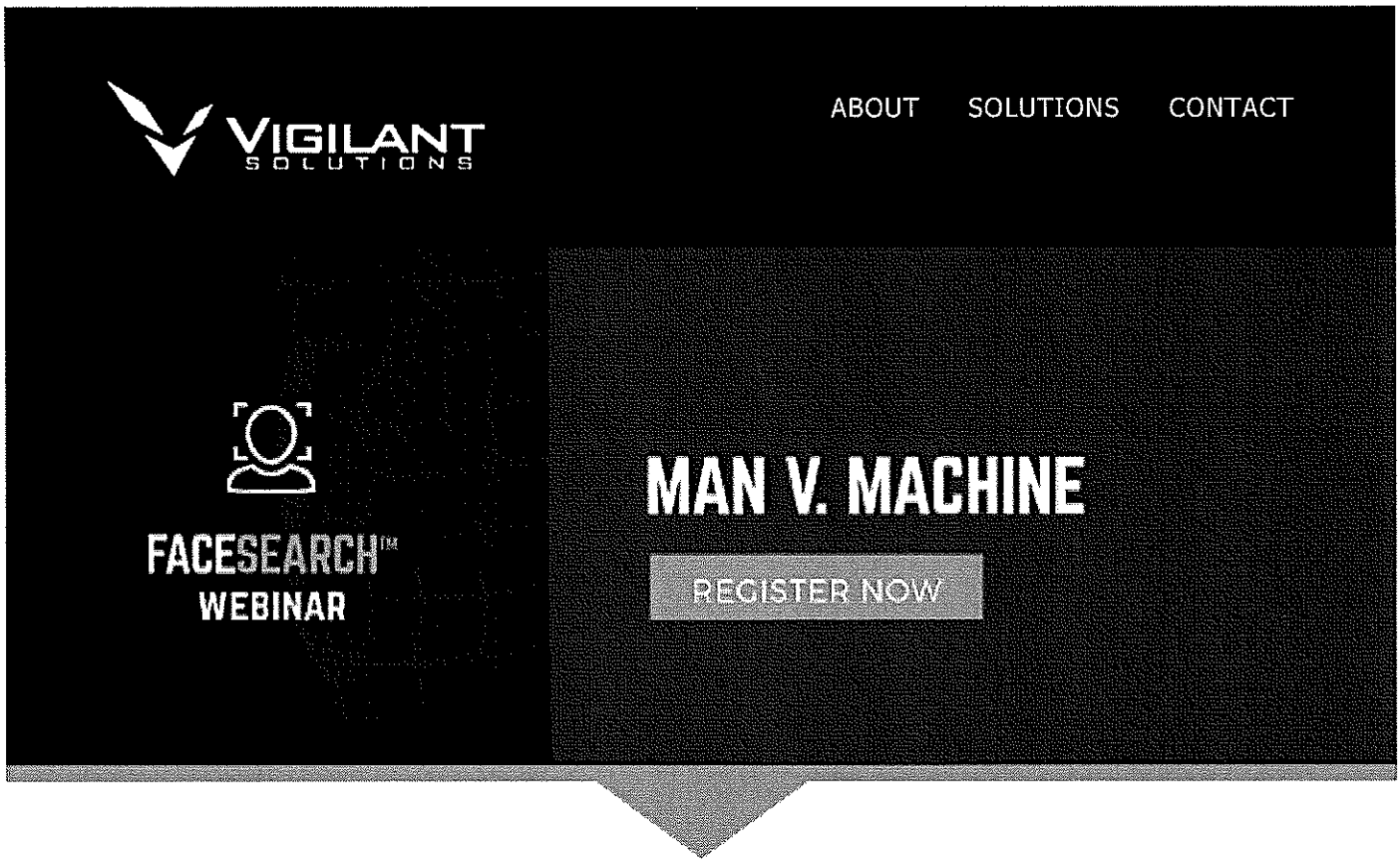

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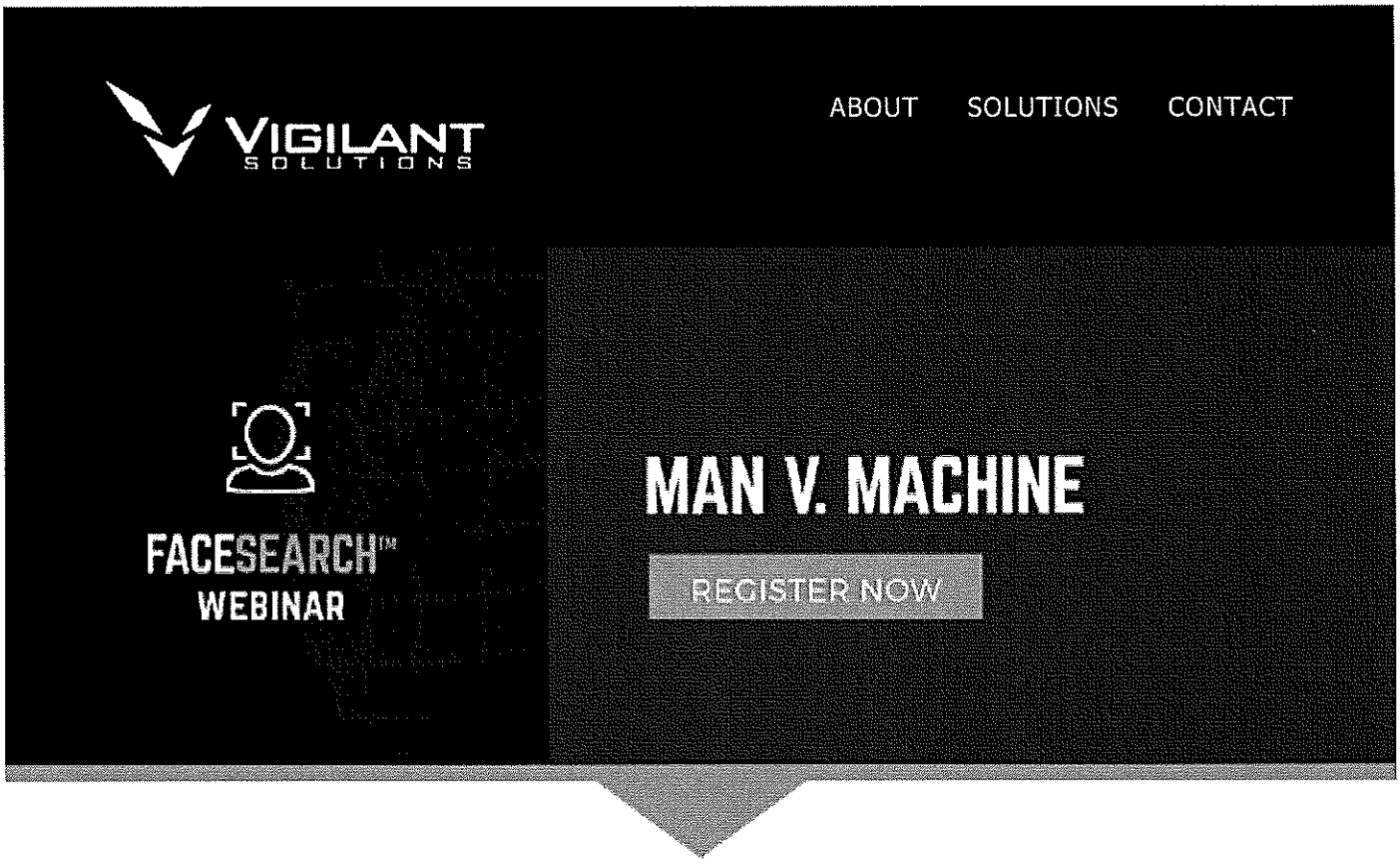

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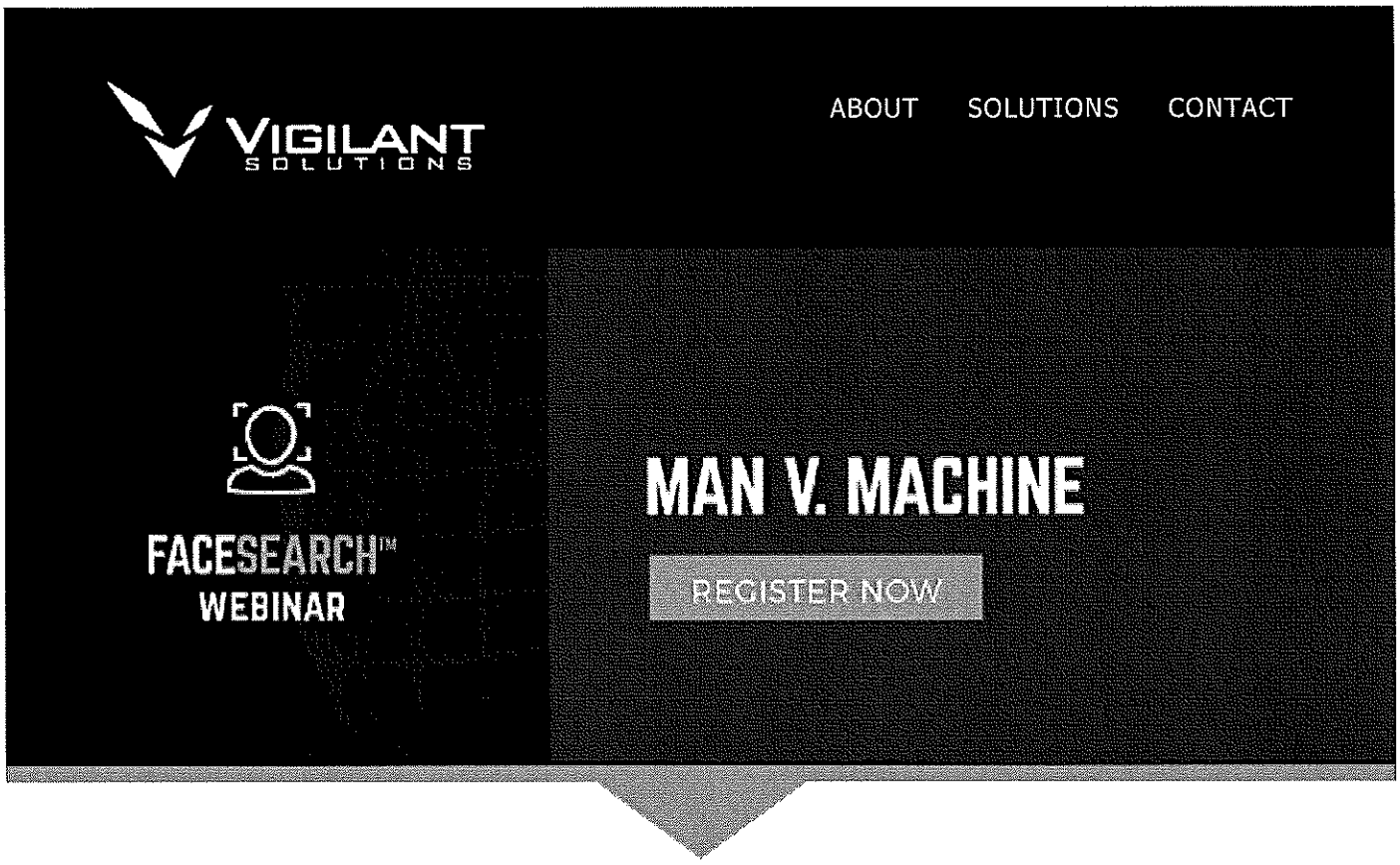

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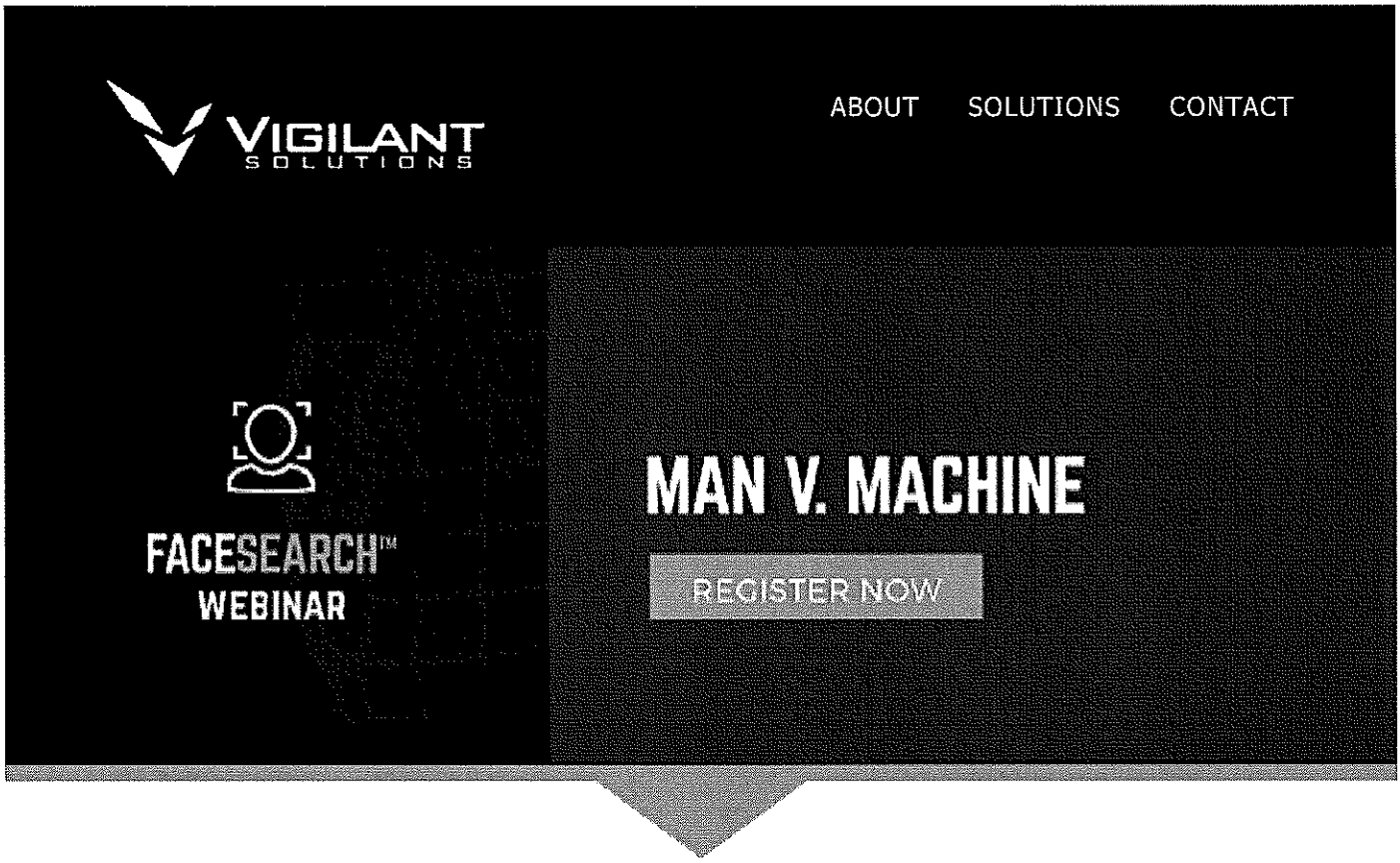

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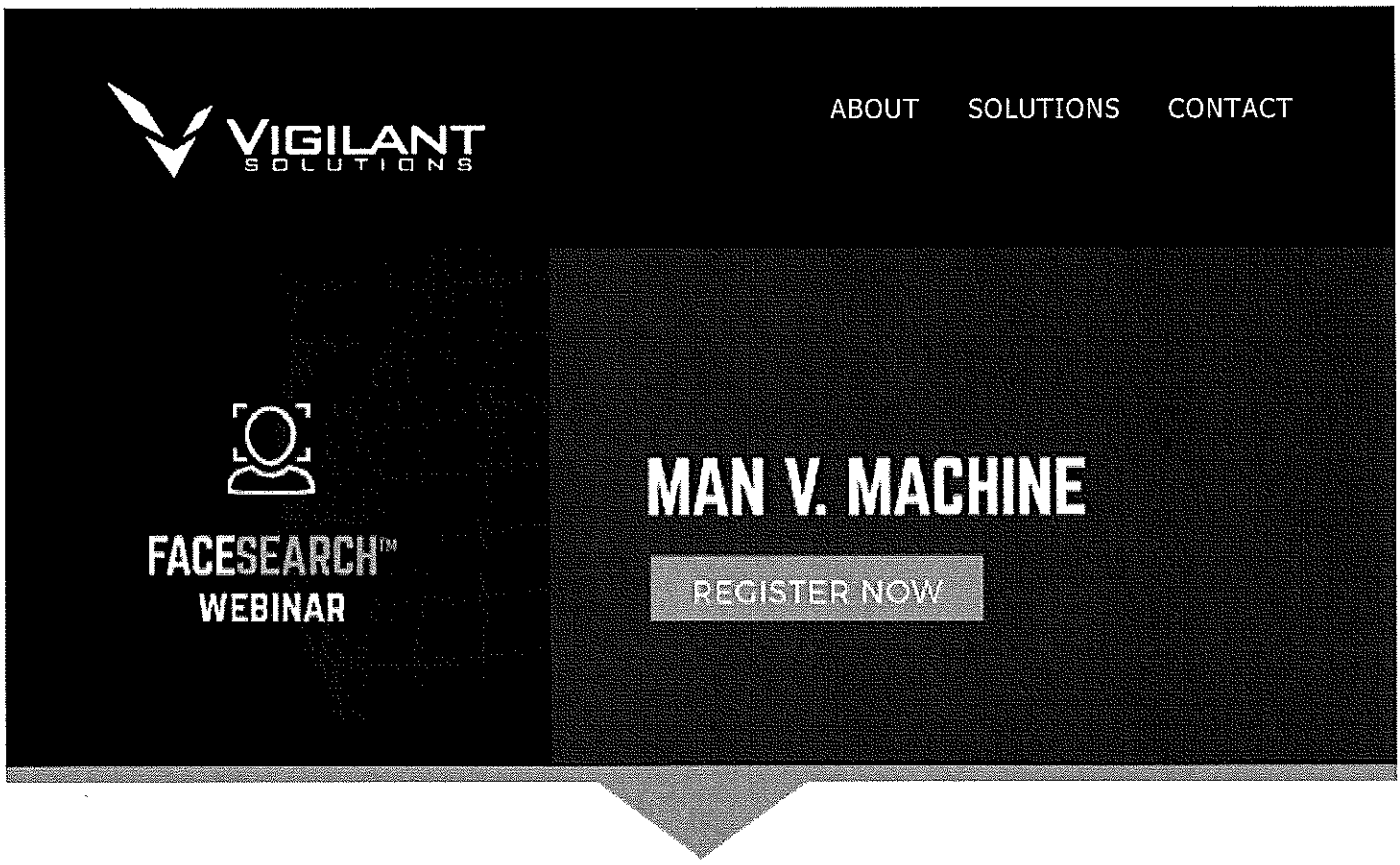

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Microsoft in 2018: What does Redmond have in store?

Microsoft had its share of hits and misses in 2017. But the folks in Redmond are moving forward with new ideas and new products. What kind of year will 2018 be for the tech titan?

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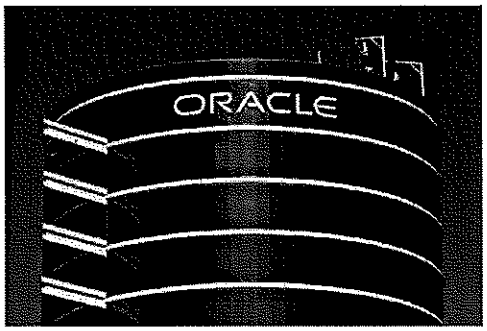
Oracle cloud looks to Kubernetes and automation to give it the edge



Oracle is betting big on the cloud, and it's taking the container and Kubernetes route to compete. Find out how the Oracle cloud platform stacks up against the competition.

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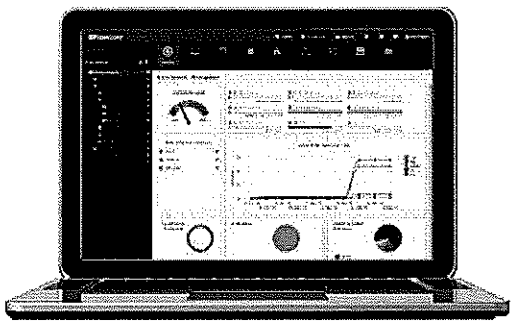

Easy to set up and use, GFI LanGuard® acts as a virtual security consultant to provide you with a comprehensive overview of your business's network security status through vulnerability assessments, patch management, and network and software auditing.

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Data backup: Reliable ways to get it done and make it more secure

What are your plans if your company is hit by a cyberattack that causes data loss? Unless you have a data backup plan, you have no plans at all.

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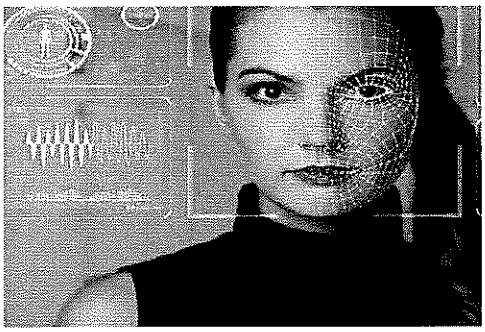
Face facts: Biometric authentication may have finally come of age



Do you wonder about the accuracy and reliability of Windows 10's facial recognition biometric authentication feature? Let's put it through its paces.

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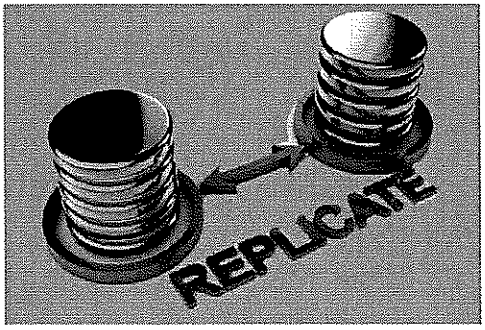
Troubleshooting Active Directory replication issues



Here's how you can check your Active Directory replication status and troubleshoot any replication issues that you may find.

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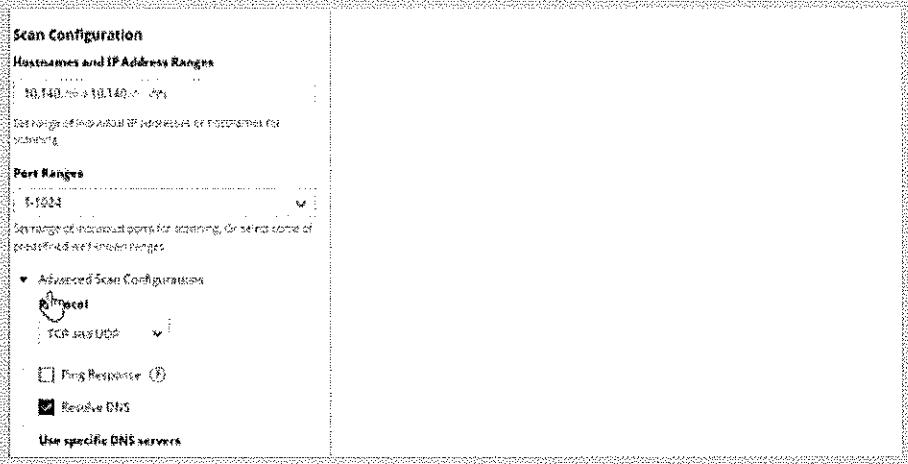
Free Tool for Identifying Network Protocols and Vulnerabilities



SolarWinds® Port Scanner is a free tool that can scan TCP and UDP ports to identify network vulnerabilities. Generate lists of open, closed & filtered ports for each scanned IP address. Reduce scan run times with multithreading, run a scan from a command line, save scan configurations, track user and endpoint device connection activity, and more!

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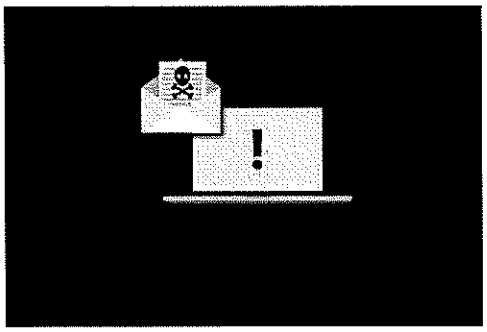
GoScanSSH malware targeting public

SSH servers



An aggressive reconnaissance malware dubbed GoScanSSH malware that targets public-facing SSH servers may be the leading edge of a major cybersecurity attack.

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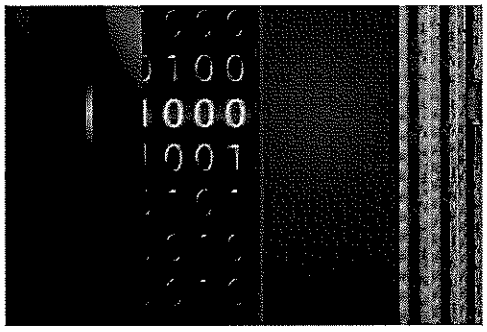
Microsoft's Project Denali offers new standard for cloud SSD storage



Project Denali is a new specification for SSD storage that Microsoft hopes will provide a critical component for security protection when it comes to server hardware.

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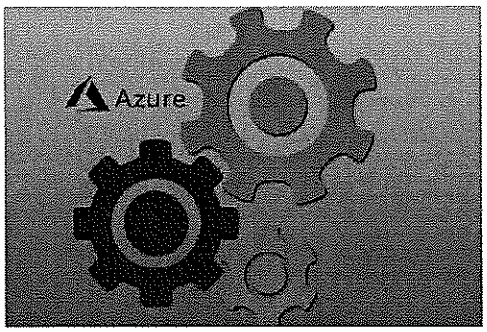
Getting started with Azure Desired State Configuration



Microsoft Azure users can take advantage of PowerShell Desired State Configuration to help you configure, manage, and maintain your Windows-based servers.

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First thoughts on Windows Server 2019, and remote work strategy considerations for enterprises

This episode focuses on topics introduced by the following TechGenix articles:

- My take: First look at Windows Server 2019
- Microsoft introduces new Windows Server 2019
- Enterprise considerations when planning a remote work strategy

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VMware Workspace ONE gets pair of new innovations

The VMware Workspace ONE digital workspace service has received updates that the company touts as major game changers for enterprises and their employees.

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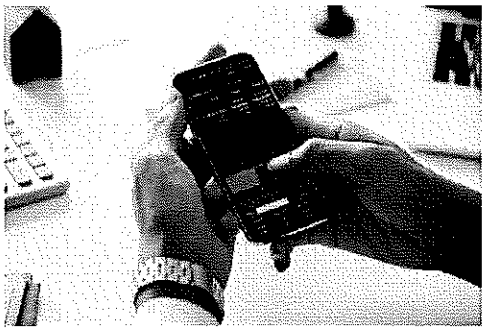
Your BYOD program: How to balance flexibility and security



A good BYOD program should empower your employees without negatively impacting company security. Striking the right balance is hard — but not impossible.

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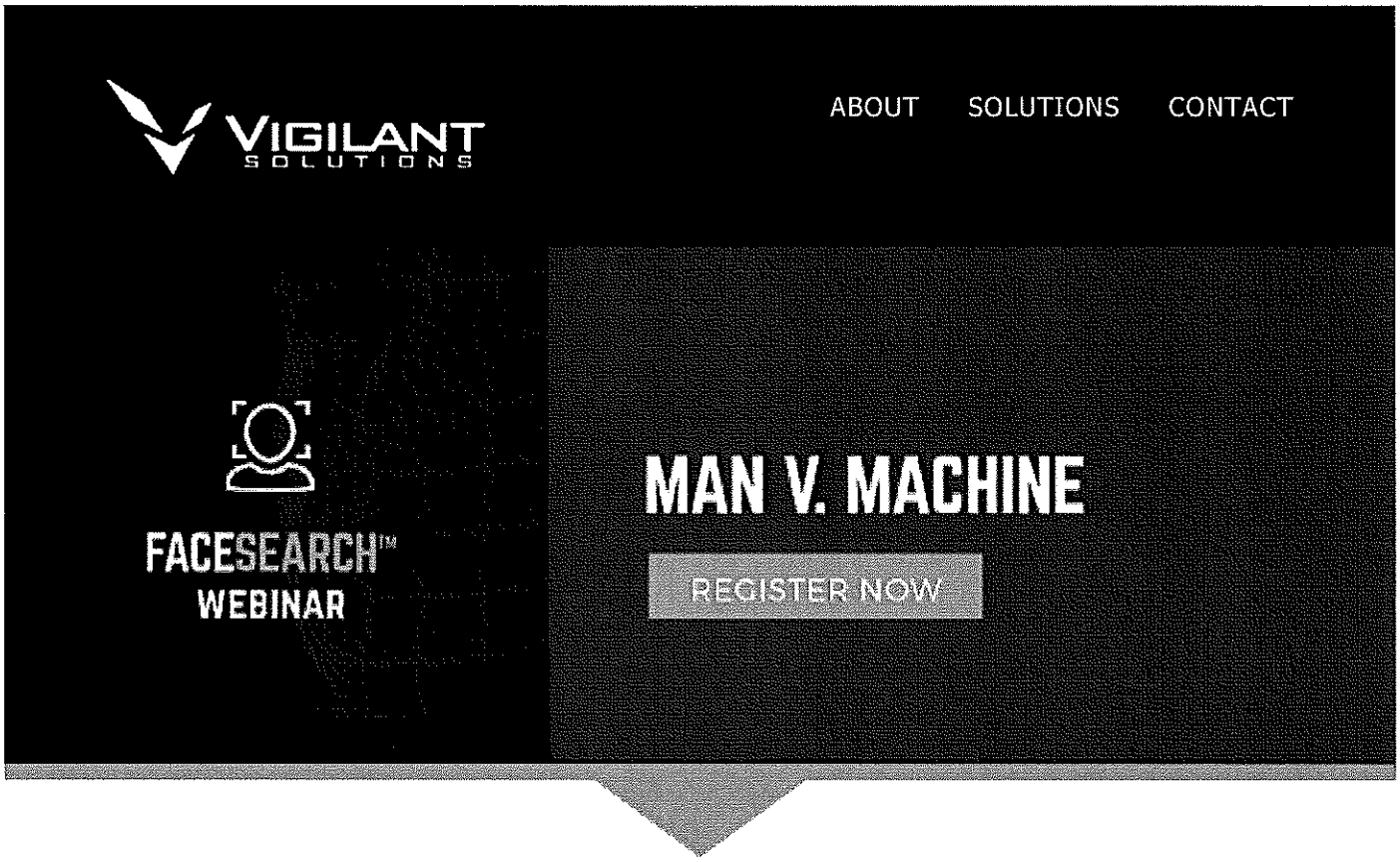

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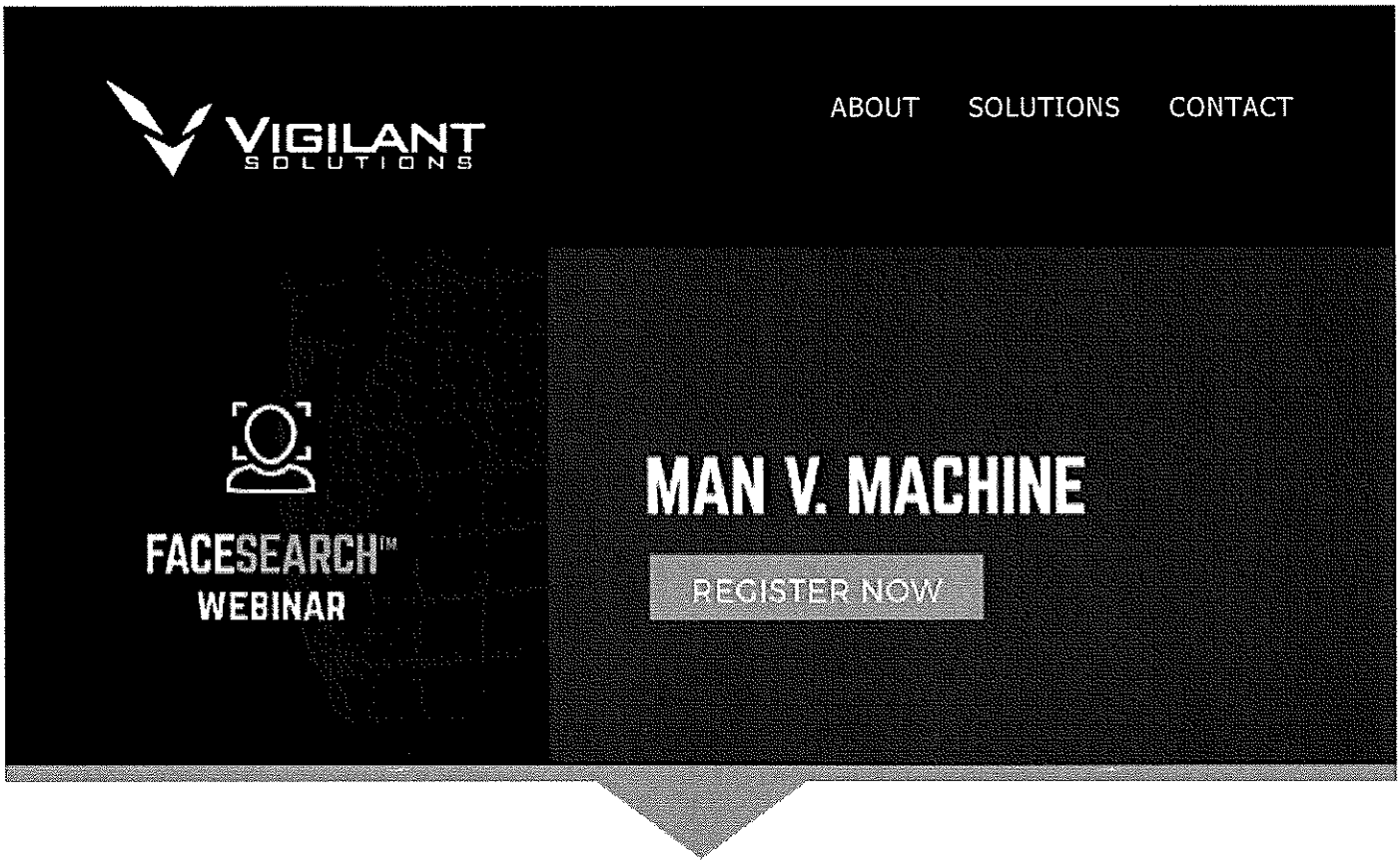

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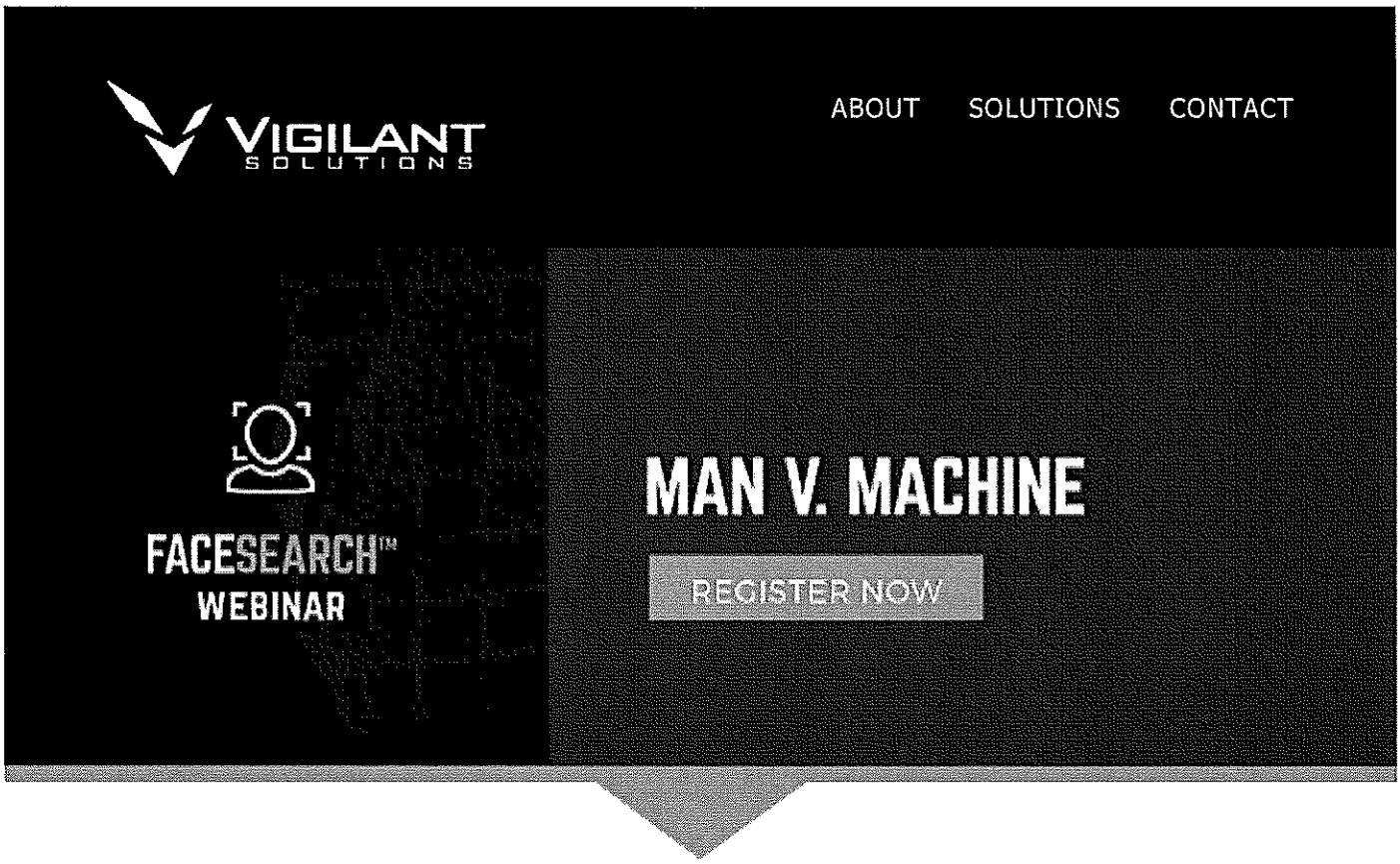

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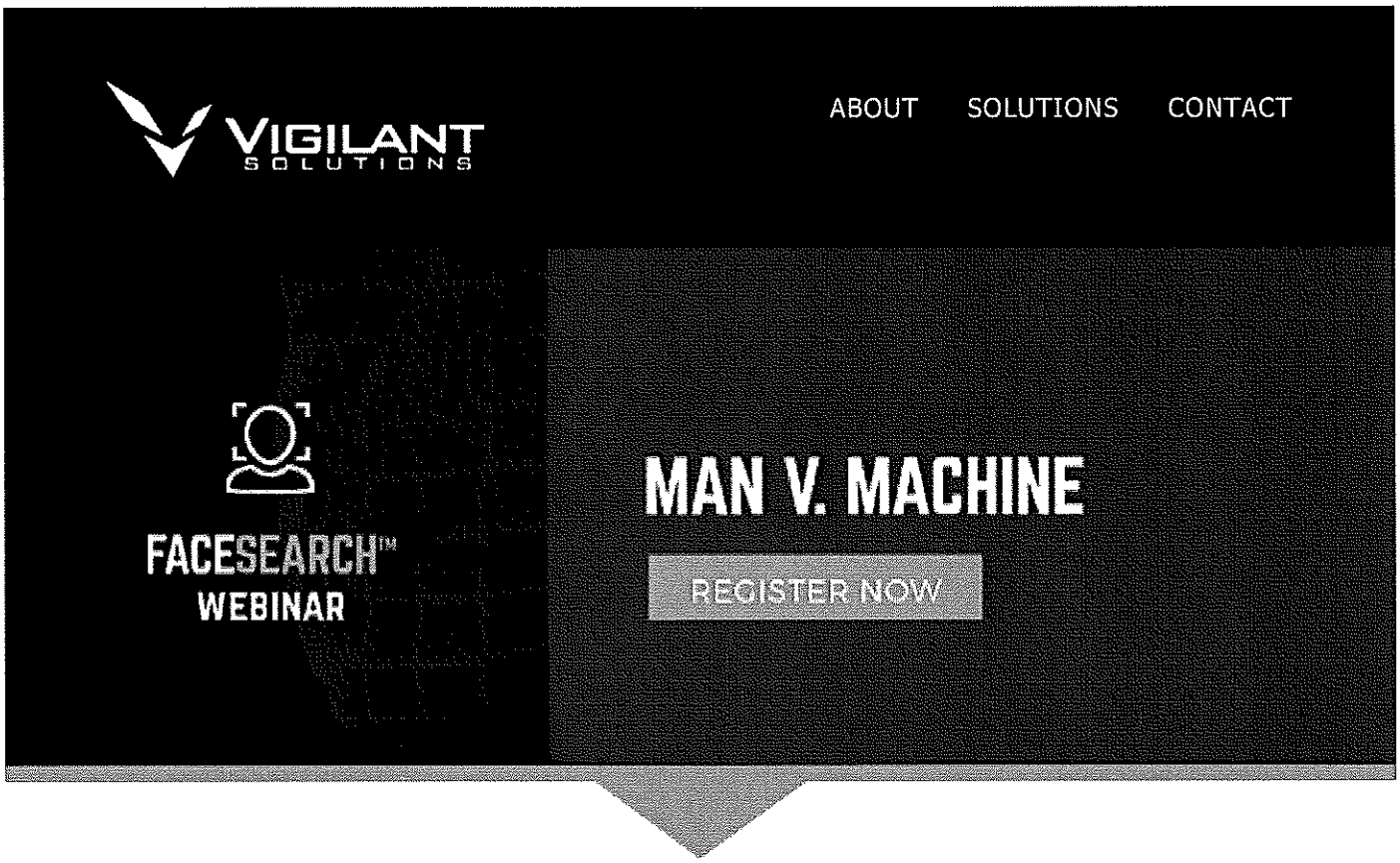
To: Cdodge@springfieldpolice.net
Subject: Man v. Machine- Facial Recognition Webinar- sign up today!



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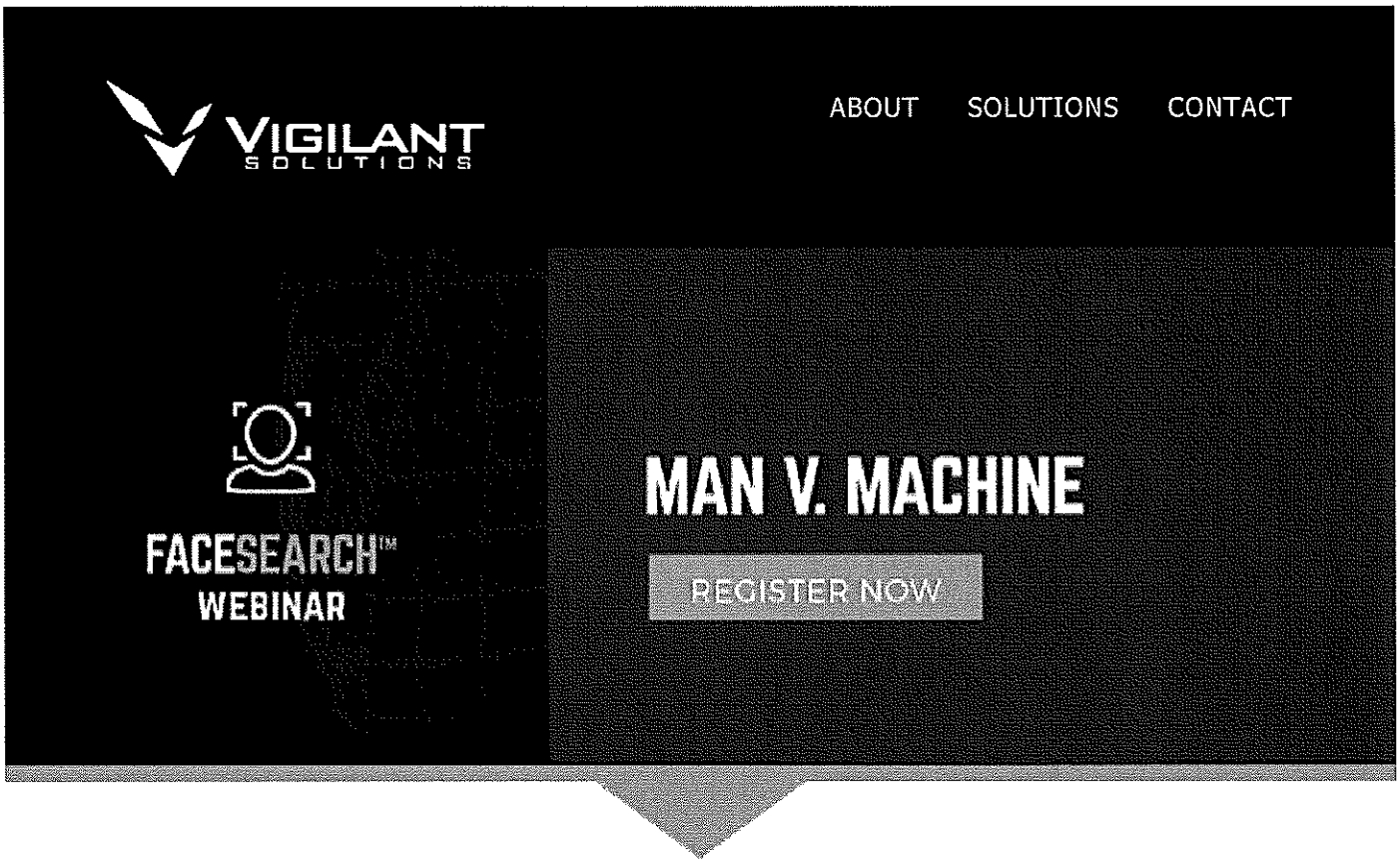

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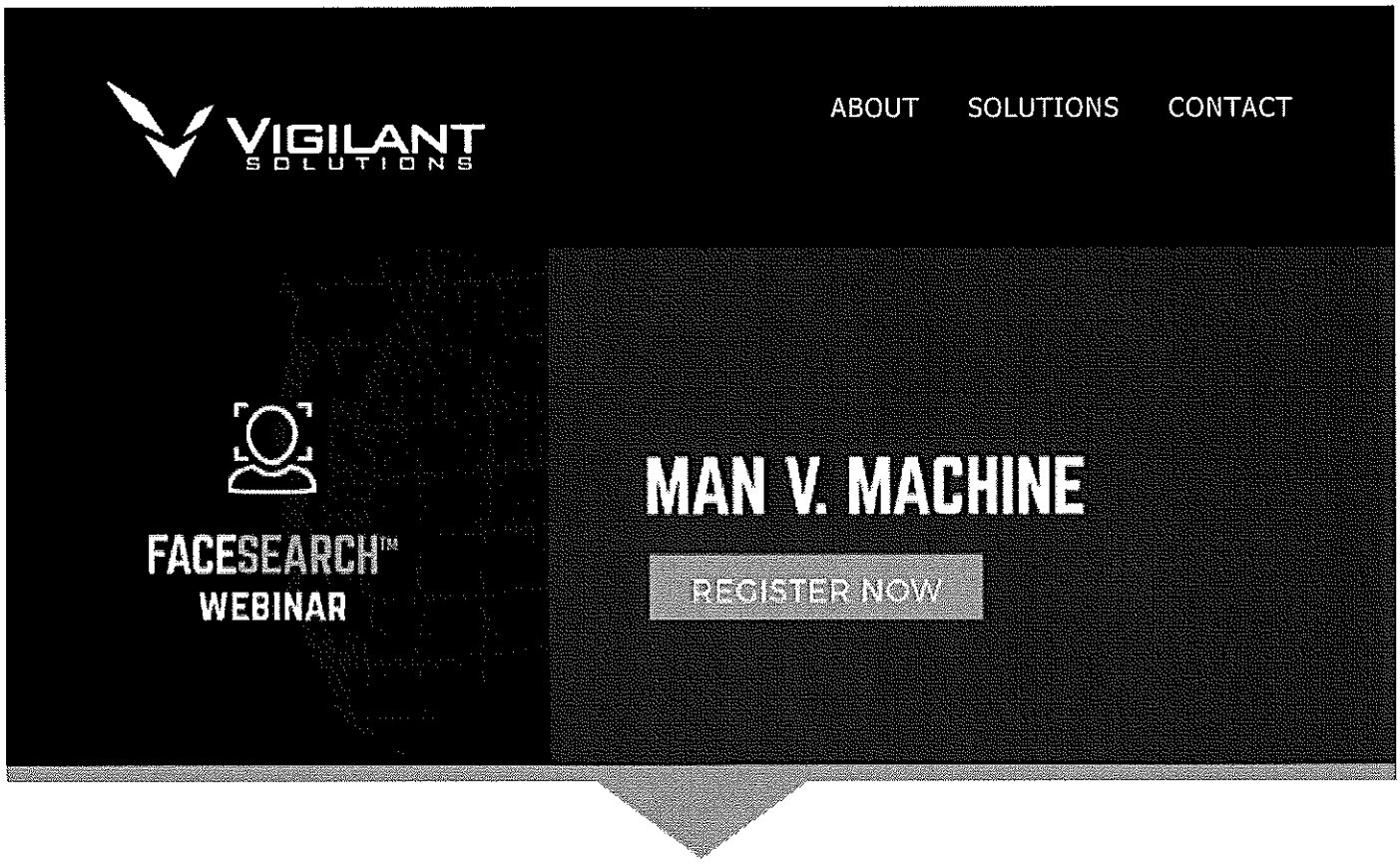

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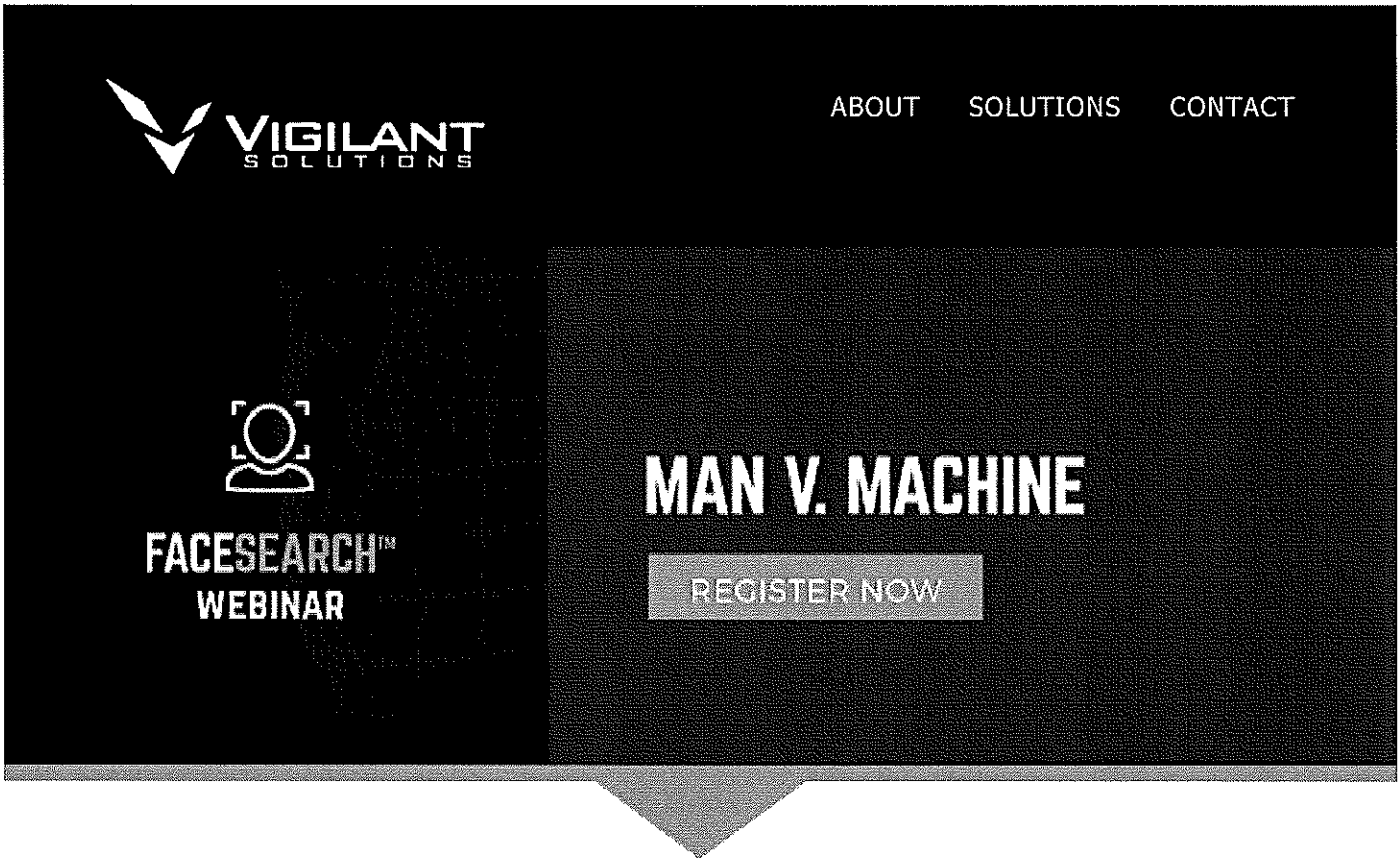

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