

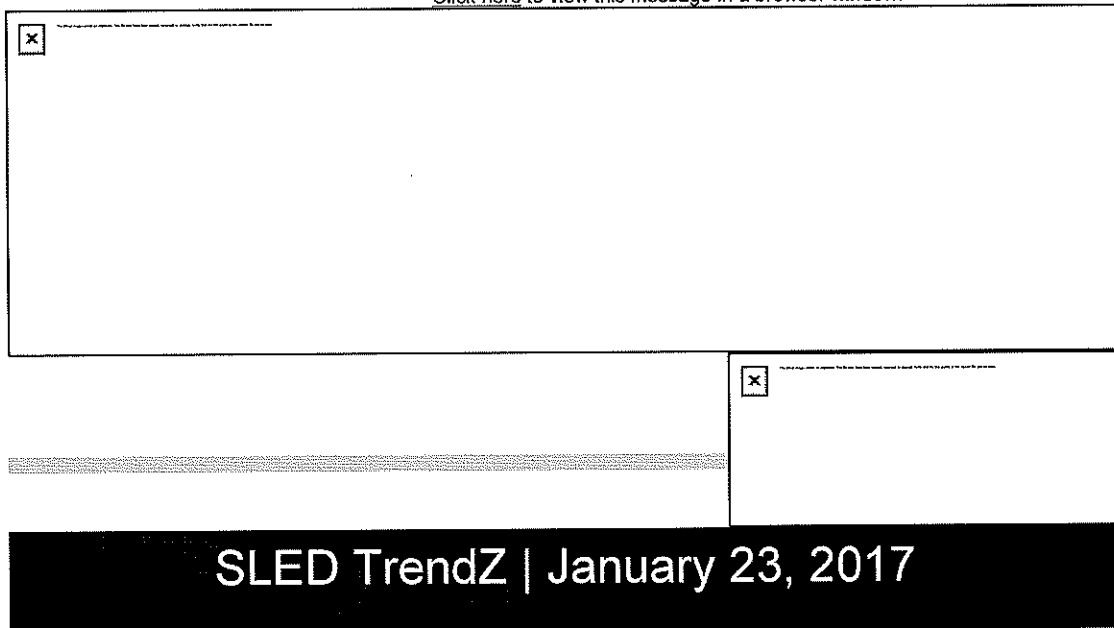
FACIAL RECOGNITION

01.23.2017 - 12.13.2017

Stone, Andrea

From: CJIS GROUP Newsletter <marketing@cjisgroup.com>
Sent: Monday, January 23, 2017 8:57 AM
To: Mellisa Nazzaro
Subject: [BULK] CJIS GROUP Newsletter | January 23, 2017
Importance: Low

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NEWS & VIEWS

- [Cities are where civic technologists can place their trust, panel says](#)
- [Streaming of state school board meetings an ongoing issue](#)
- [Patriot One Onsite Weapon Detection Coming to Clubs in Orlando \(Video\)](#)
- [Auburndale's city manager uses talents to keep city on track](#)
- [Spurred by Oso landslide, Washington puts topo maps online](#)
- [The state should not strip municipalities of their power to regulate cellphone towers](#)
- [A matter of records: Governments look to change ways public](#)

- gets information
- Orlando forms partnership to seek national automated vehicle designation
 - Boynton becomes fourth county municipality to use police body cameras
 - Info on proposed jail will be in the mail
 - Pierce County First in Washington to Use Clear Ballot Election Technology
 - How New Jersey's tech office tackled morale and workforce weaknesses
 - Arkansas's Gov2Go Recognized for Digital Government Transformation
 - Burr Ridge seeks to regulate small cell antennas, before state does
 - Paterson students outsmart crime through technology
 - Ashe County High School students advance in nationwide contest
 - Mishawaka Cops Buy Their Own Body Cameras
 - FMPD To Spend \$1M On Tasers, Body Cameras
 - South Portland Police To Wear Body Cameras, But Policy On Use Is Kept Secret
 - Police Accountability Group Calls For Body Cameras For Greeley Police Department
 - End In Sight (Finally) For Really Big W.Va. State Government Computer Upgrade
 - Syracuse Cops Will Soon Be Able To Pinpoint The Exact Location Of Gunshots
 - Mobile Biometric Breathalyzer Speeds Sobriety Testing
 - Election Systems Get 'Critical Infrastructure' Designation
 - New Gun Cameras Offer A 'Cops-Eye' View Of Policing

- 'Hacktivists' Increasingly Target Local And State Government Computers
- California Bill Seeks Police Surveillance Transparency
- New Technology To Help State Police Track Crime Trends
- Map-Based Tool For Transportation-Related Asset Management
- DOT Opens Dataset On Smart City Challenge Ideas

Not enough time to respond to RFP's?

Click here to beat the deadline

Developing Opportunities

The Drawing Board: Here are some of the newly discovered IT initiatives being planned in agencies nationwide:



Status: PROBABLE STATE CONTRACT

The Virginia Department of Social Services is required to procure IV&V Services related to the SACWIS effort (CJIS GROUP #67179). The vendor will ensure that user requirements are met along side ensuring that the product is structurally sound and built to the required specifications..... [Click for opportunity details](#)

Status: PRE-IFB WATCH LIST

The California Department of General Services will acquire a Sitecore - based Website Content Management System (WCMS) and Integration Services. The Department will contract with a vendor for the redesign of the external organizational website and related content management system (CMS) in order to better serve DGS' customers while removing the burden of content maintenance from internal IT staff..... [Click for opportunity details](#)

Status: PRE-RFP

The Utah Department of Transportation (UDOT) will acquire a Maintenance and Asset Management System. The System should be web-based, mobile complemented, GIS-compatible, and allow for customer configuration to accommodate the agency's business and engineering practices..... [Click for opportunity details](#)

Status: INITIATIVE

The Washington State Consolidated Technology Services is considering outsourcing Mainframe Hosting Services. The agency may opt to stay with the current hosting process, but is open to outsourcing the Services depending on the outcome of the assessment by the Mainframe Consulting Services vendor (CJIS GROUP #88281). The Consultant will use existing benchmark data, information and reports to:

- (1) create a baseline by developing an estimate of the total annual cost of providing the services; and
- (2) develop a comparison of the cost of the current approach to the cost of a variety of alternatives, including options around contracting with a private (non-state) entity to provide most or all services.....[Click for opportunity details](#)

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Funding News

- [Schools seek out unique funding solutions](#)
- [TDS Goes 50/50 with State to Expand Minnesota Rural Broadband](#)
- [\\$240,000 grant awarded to Boise State Public Radio](#)
- [Animal shelter, prison expansion top Washington County priority list](#)
- [Milpitas: City to receive \\$116K in police grant monies](#)
- [Governor Larry Hogan Announces Fiscal Year 2018 Budget](#)
- [State grants \\$34 million to expand rural broadband, one project in Le Sueur County](#)

- [State Grants \\$34 Million To Expand Rural Broadband In Minnesota](#)
- [Wilson Foundation Announces Additional \\$1 million In Prison Reentry Initiative Grants](#)
- [37 N.J. Police Departments Getting Body Cameras With Federal Funds](#)
- [Grant Supports Transition To Better Emergency Communication](#)
- [The Feds Want \\$9.7 Million Back From Colorado's Health Exchange](#)
- [Two-Thirds Of New Spending In Gov. Otter's Proposed Budget Would Go To Education](#)

Industry News

[Solacom And RapidSOS Partner To Provide 9-1-1 Centers With Enhanced Data For Smartphone 9-1-1 Calls](#)

['Fast'-growing local company ranked among best places to work](#)

[Microsoft wants to make conversing with your computer the new normal](#)

[NEC Expands Channel, Joins Forces with Fast Growing Technology](#)

[Business Solution Provider Micro Strategies, Inc.](#)

[Metalogix Wins Redmond Channel Partner Reader's Choice Award: Best IT Products and Services of 2016](#)

[Interactive inauguration map would help crowds visiting Washington](#)

[The Public Employees Retirement System of Ohio invests in Frontier Communications Corp.](#)

[GTL Unveils Major Release of Inmate Telephone Platform](#)

[Verizon to study Hurricane Ridge cell equipment under agreement with park](#)

[Microsoft Dips Toe Deeper into Human Resources Software](#)

[Amazon Web Services, Google Cloud, and Microsoft Azure join NSF's Big Data Program](#)

[HID Global Predicts Top Trends for 2017 in the Identity Technology Industry](#)

[Izenda Partners with Orion Communications to Provide Public Safety Agencies with Embedded Analytics](#)

[3M and Verily Life Sciences Collaborate to Develop Population Health Measurement Technology for Healthcare Providers and Payers](#)

[TransUnion Partners with Carahsoft to Fortify Public Sector](#)

[Austin police deploy Hitachi facial recognition software](#)

[What to expect at DistribuTECH 2017 - Booth #3603](#)

[Motorola Solutions salutes Florida first responders](#)

[Verizon proposes deal with City School](#)

[HID Global Introduces Simple and Fast Solution for Visitor Management](#)

[Three Hottest Android Smartphones That Will Rock 2017](#)

[The Top APM Solutions of the Year Based on Real User Reviews \[IT Central Station Rankings, January 2017\]](#)

[OneNeck IT Solutions Earns EU-U.S. Privacy Shield Framework Compliance](#)

[Industry Veteran Joins GTL as Executive Vice President of National Sales Team](#)

[Federal Engineering to Develop Lincoln County Public Safety Communications System Plan](#)

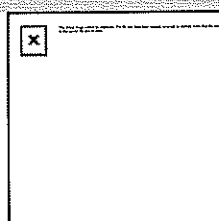
[Capita Technologies Changes Name to cFive™ Solutions](#)

[OneNeck® IT Solutions reduces complexity, enables St. Charles Health System to connect new clinics](#)

[GTL Recaps Record Expansion of its Innovative Service and Solution Portfolio in 2016](#)

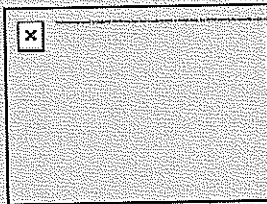
[Fraud fighter fits credit cards with constantly changing security codes](#)

[The Everything Chip: Qualcomm's Plan To Power Drones, VR, Cars, PCs, And More](#)



TIME IS LIMITED ON THESE SOLICITATIONS!

Agency	Project	Status	Release Date	Due Date
Florida Department of Transportation	<u>Intelligent Transportation Systems (ITS) Operations Support Services Contract SWIFT RTMC</u>	ITN	01/18/2017	03/14/2017
Pennsylvania Department of Transportation	<u>Capital Planning Tool</u>	RFQ	01/19/2017	01/26/2017
San Juan County	<u>Mass Emergency Notification System</u>	RFP	01/05/2017	01/10/2017
North Carolina Department of State Treasurer	<u>Maintenance and Support for Integrated Document Management System</u>	IFB	01/18/2017	02/02/2017
Texas Department of Transportation	<u>Wireless Pacific X10DR Wireless Mic System</u>	BID	01/18/2017	02/01/2017



CJIS GROUP is committed to helping you create and execute a winning strategy! ..

- ☐ CREATE MESSAGES AND CONTENT THAT RESONATES WITH SLED DECISION MAKERS
- ☐ CUSTOMIZE A CAMPAIGN TO MEET YOUR TIMELINE AND OBJECTIVES
- ☐ GENERATE PROPRIETARY LEADS BASED ON AUDIENCE RESPONSE TO YOUR MESSAGE

Contact us directly so we can create an solution customized around your 'Go to market' needs. Click the link below to discuss how to **build a better state and local strategy.**

Custom Marketing Services

CJIS GROUP is committed to improving the technology procurement process by providing in depth, validated market intelligence and quality research for the state and local government market.

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Stone, Andrea

From: ISS World Seminars <issworld@telestrategies.net>
Sent: Sunday, February 12, 2017 8:18 PM
To: jbarbieri@springfieldpolice.net
Subject: Advanced Law Enforcement Training Seminars by Officers Mark Bentley and Chuck Cohen

ISS World®

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**Advanced Cybercrime
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Current trends include social networks based around live streaming video, like TinyChat and SnapChat, and mobile social networks like, Foursquare, Vibe, and Vine. These emergent technologies lead to risks and opportunities for law enforcement professionals that never previously existed. Current and future undercover officers must now face a world in which social recognition and

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to legal constraints.

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Current and future undercover officers must now face a world in which facial recognition and Internet caching make it possible to locate an online image posted years or decades before. The meshing of geolocation, social networking, and mobile devices allow officers to employ new investigative techniques not previously available. There are risks posed to those in the public arena, and those charged with protecting them, associated with online social media and online social networking. The online social networking activities of employees, along with ever-increasing availability of information in the online public domain, present real challenges to companies and governments.

Session #5: What Investigators Need to Know about Hiding on the Internet

Criminal investigators and analysts need to understand how people conceal their identities on the Internet

Investigator tradecraft and good practice

Just surfing the web doesn't evidentially hold up in court any more. In the real investigative world, we add layers of integrity and provenance to evidence, with property bags, statements and other supporting notes to get the evidence to court. Now we have to do the same virtually with online evidence and product. This session will show you good practice and watertight tradecraft in order to provide weighty and substantial evidence in court.

Advanced open source, lateral thinking and problem solving

"Sometimes, you have to stop looking for what you want to find, to find what you are looking for". This is one of my favourite, and most used phrases that sums this session up entirely. What else can we do that isn't obvious, to get where we want to get and identify the suspect? This session will show you how to specifically search data, look at non-obvious sources, analyse habit and human nature, and use it as a tool. Can you trust the data you're searching on? Are you searching all the ways to find data? This session will

Technology may be neutral, but the ability to hide ones identity and location on the Internet can be both a challenge and an opportunity. Various methods of hiding ones identity and location while engaged in activities on the Internet, provides an opportunity for investigators to engage in covert online research while also providing a means for criminals to engage in surreptitious communication in furtherance of nefarious activities. As technologies, such as digital device fingerprinting, emerge as ways to attribute identity this becomes a topic about which every investigator and analyst must become familiar.

Students receive course material, including legal process contact information, preservation letters, boilerplate compliance documents, and resource guides.

NOTICE: Course contains graphic content including profanity, and sexual and violent images.

ABOUT THE INSTRUCTOR

Chuck Cohen's formal education includes a Master of Business Administration from Indiana Wesleyan University and an undergraduate degree from Indiana University with a double major in Criminal Justice and Psychology. Chuck is also a Certified Fraud Examiner.

He is a Lieutenant serving the Indiana State Police, where he has been employed since 1994. He is currently the Commander, Cybercrime and Investigative Technologies Section. In

show you how to have good data hygiene and best practice, add integrity, and widening your virtual gaze.

Open source surfing and intel gathering techniques and tools

There is a fine art and skill to open sourcing in the 21st Century. The investigator needs to know exactly how to 'talk' to search engines, to cut away the unnecessary digital flotsam which clouds the results, and get straight to the data required. This session will teach you to return results from search engines in manageable numbers of results - sometimes one page of data specifically and exactly what you were searching for. Just putting data into a search engine is a waste of time. Lets fine tune our requests and save time .

The lecturer runs an encrypted Law enforcement Open source tool site for investigators, based on 15 years of collection of useful tools. Delegates will be trained and familiarized with the 200+ OSINT tools therein, and provided with the password to use them.

Social Networking site interrogation and analytics

Social networking sites are great aren't they? Not from the

this capacity, Lt. Cohen is responsible for the cybercrime, electronic surveillance, technical services, and Internet crimes against children units along with overseeing the department's overt and covert criminal intelligence function. Chuck is the Indiana Internet Crimes Against Children (ICAC) Task Force Commander.

Chuck speaks internationally on topics including the implications of online social networks in criminal investigations and criminal intelligence gathering, cybercrime, online fraud, money laundering, corruption investigations, and the investigation of skilled criminal offenders. He is an Adjunct Instructor at Indiana University Bloomington, where he teaches Foundations of Criminal Investigation.

Chuck was a member of the Office of the Director of National Intelligence Summer Hard Problem Program in 2008, 2009, and 2010. The 2008 the study topic was "3D Cyber Space Spillover: Where Virtual Worlds Get Real." The 2009 topic was "Mixed Reality: When Virtual Plus Real Equals One." And, in 2010, the topic was "Online Social Media."

He is a published author, including peer-reviewed material and a cover article for Police Chief Magazine. Chuck was recently featured on the cover of the National White Collar Crime Center's Informant magazine and a feature guest on the syndicated radio program "The Badge" on SiriusXM. He was a subject matter expert for a Fox nationally syndicated show regarding criminal activity in online dating sites and for the Canadian Broadcasting

perspective of the user - I mean that of the perspective of the investigator. We leave so much data on the web, it can lead to building up an extensive profile and leading us onto data we (and the suspect) didn't know they were leaving. Lets find it.

Human anthropology Versus digital foot printing

How we live, move and react with the real world is reflected in the digit footprint we leave in the virtual world. This session will look at where to look for clues in the data and footprint, to profile and help identify the person leaving it

Social engineering tricks and exploits

This session gives the delegate an understanding of the origins, impact and harm that the modern criminal social engineer plays in crime and intelligence security in the modern day internet. It covers both attack and defence. Can we identify, exploit and copy their tactics?

Deep web analysis. "Googling it" doesn't cut the mustard any more. Its great for cheap flights and deals, but not for looking for people, digital shadows and historic footprints. Search engines can see less than a fifth of the Internet. Where else do

Corporation's national news regarding criminal activity in Virtual Worlds.

Complete Seminar Agenda and Registration

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we need to look? How can we look? What tools are there? Are we just looking at the big sites and should we look at the others? This session will take students deep into the Internet, and surprise many with what we will find, and can achieve, with an emphasis on the mind set, systematic approach and best practice methodology.

Injection and weaponising.

What can be weaponised or injected? How can we do it without detection? The advantages are self explanatory- but what are the pitfalls? What are the legal issues with this type of tracking? Can we do it and if so how?

Tracking Tor users and exploiting system vulnerabilities

Tor is a very difficult nut to crack. What if we stop looking at it and start looking at alternative vulnerabilities – and yes, even Tor has an Achilles heel. Lets have a look at it and start tracking users.

Temporal analysis and attribution. Are we thinking about everything when we track someone online? What sort of digital footprint are they leaving? Are we just looking at the obvious ones or are there

some we don't know about?
How can we find out? How do we cut away the giant virtual haystack of data to find the intelligence needle we were looking for? How can we track people successfully, who are adept at 'hiding' on the Internet? This session will show you how no one can hide. Attribution of a device to an individual is a major problem for Officers and prosecutors alike. This session will teach you good practice to ensure there is sufficient data to prove attribution to an individual.

Attribution

A headache for most prosecutors and investigators. We can put a device at a location but how do we show who was there with the device. What other clues are there to prove ownership and use? Let us look at them all.

MAC, IMSI and IMEI evidential value and opportunities

When we look at devices we focus on carrier, provider and capability. But what about The IMSI, MAC and IMEI? what can we do with these? How can we combat attempts by the user to tumble or mask them?

Advanced device tracking and digital non-visual surveillance

Why does your smart phone battery die in less than a day? Its because it reaches out to the network 250,000 times an hour to allow you to have the very best experience from your provider. But where are these connections being made? Can the carrier see them? Can we see them and where can we find them? Never think 'there's no trace'. Have you ever had a case that went 'cold'? You will be re visiting it after this session.

Bitcoin tracking and exploits.

Have a bitcoin investigation? Can't track where the money went? In the real world, we can 'mark bills'. Can we do it with crypto currency? Let us see if we can track it.....

Covert techniques, profiles, identities, legends and tricks

Criminals and bad people play dirty and use dirty tricks. Can we play them at their own game? (Legally). Social engineering, scams, injection, ransomware? Let us brainstorm this and see...

Financial and organisational security

Training for financial institutions and secure organisations re risks and attacks. The view point of the hacker and the would be

thief and how that perception or targetting, of the banks Achilles heel , differs from that of the organisation or the IT within that business. Looking at both the attacking strategies and defensive work to future scan and defend against the as yet unseen threat. Live examples given . Also social engineering scams and defence.

NOTICE

Whilst every effort will be made to avoid, Due to the nature of the course, and live searching in the dark web, students may be exposed to disturbing or sexual images, profanity and graphic content, beyond the control of the presenter.

ABOUT THE INSTRUCTOR

Mark Bentley is a globally recognised communications data expert, who works as an adviser, trainer and consultant to security services, government and police forces around the world.

His experience is based on 35 years as a detective, which includes experience gained working for the UK National Crime Agency (NCA), Metropolitan police, and Child Exploitation and Online

Exploitation (CEOP), in the capacity of overt, reactive and covert operations management.

He has been involved in the tracking of high profile cases, persons and vessels.

He is the Open source expert and lead advisor for forces and government agencies in several countries and advises on data analysis to government agencies, both domestic and abroad. Administrates and runs a leading , dedicated Law enforcement tools site for open sourcing.

His specialist area is device tracking and interrogation, alternative profile digital shadowing, injection and weaponising.

Mark presents this and other subjects to government and law enforcement around the world, both independently, and at ISS world training events. He is a lecturer for International policing organisations, EU cybercrime twinning project, The Council of Europe and The UK College of policing.

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Stone, Andrea

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Current and future undercover officers must now face a world in which facial recognition and Internet caching make it possible to locate an online image posted years or decades before. The meshing of geolocation, social networking, and mobile devices allow officers to employ new investigative techniques not previously available. There are risks posed to those in the public arena, and those charged with protecting them, associated with online social media and online social networking. The online social networking activities of employees, along with ever-increasing availability of information in the online public domain, present real challenges to companies and governments.

Session #5: What Investigators Need to Know about Hiding on the Internet

Criminal investigators and analysts need to understand how people conceal their identity on the Internet

Investigator tradecraft and good practice

Just surfing the web doesn't evidentially hold up in court any more. In the real investigative world, we add layers of integrity and provenance to evidence, with property bags, statements and other supporting notes to get the evidence to court. Now we have to do the same virtually with online evidence and product. This session will show you good practice and watertight tradecraft in order to provide weighty and substantial evidence in court.

Advanced open source, lateral thinking and problem solving

"Sometimes, you have to stop looking for what you want to find, to find what you are looking for". This is one of my favourite, and most used phrases that sums this session up entirely. What else can we do that isn't obvious, to get where we want to get and identify the suspect? This session will show you how to specifically search data, look at non-obvious sources, analyse habit and human nature, and use it as a tool. Can you trust the data you're searching on? Are you searching all the ways to find data? This session will

Technology may be neutral, but the ability to hide ones identity and location on the Internet can be both a challenge and an opportunity. Various methods of hiding ones identity and location while engaged in activities on the Internet, provides an opportunity for investigators to engage in covert online research while also providing a means for criminals to engage in surreptitious communication in furtherance of nefarious activities. As technologies, such as digital device fingerprinting, emerge as ways to attribute identity this becomes a topic about which every investigator and analyst must become familiar.

Students receive course material, including legal process contact information, preservation letters, boilerplate compliance documents, and resource guides.

NOTICE: Course contains graphic content including profanity, and sexual and violent images.

ABOUT THE INSTRUCTOR

Chuck Cohen's formal education includes a Master of Business Administration from Indiana Wesleyan University and an undergraduate degree from Indiana University with a double major in Criminal Justice and Psychology. Chuck is also a Certified Fraud Examiner.

He is a Lieutenant serving the Indiana State Police, where he has been employed since 1994. He is currently the Commander, Cybercrime and Investigative Technologies Section. In

show you how to have good data hygiene and best practice, add integrity, and widening your virtual gaze.

Open source surfing and intel gathering techniques and tools

There is a fine art and skill to open sourcing in the 21st Century. The investigator needs to know exactly how to 'talk' to search engines, to cut away the unnecessary digital flotsam which clouds the results, and get straight to the data required. This session will teach you to return results from search engines in manageable numbers of results - sometimes one page of data specifically and exactly what you were searching for. Just putting data into a search engine is a waste of time. Lets fine tune our requests and save time .

The lecturer runs an encrypted Law enforcement Open source tool site for investigators, based on 15 years of collection of useful tools. Delegates will be trained and familiarized with the 200+ OSINT tools therein, and provided with the password to use them.

Social Networking site interrogation and analytics

Social networking sites are great aren't they? Not from the

this capacity, Lt. Cohen is responsible for the cybercrime, electronic surveillance, technical services, and Internet crimes against children units along with overseeing the department's overt and covert criminal intelligence function. Chuck is the Indiana Internet Crimes Against Children (ICAC) Task Force Commander.

Chuck speaks internationally on topics including the implications of online social networks in criminal investigations and criminal intelligence gathering, cybercrime, online fraud, money laundering, corruption investigations, and the investigation of skilled criminal offenders. He is an Adjunct Instructor at Indiana University Bloomington, where he teaches Foundations of Criminal Investigation.

Chuck was a member of the Office of the Director of National Intelligence Summer Hard Problem Program in 2008, 2009, and 2010. The 2008 the study topic was "3D Cyber Space Spillover: Where Virtual Worlds Get Real." The 2009 topic was "Mixed Reality: When Virtual Plus Real Equals One." And, in 2010, the topic was "Online Social Media."

He is a published author, including peer-reviewed material and a cover article for Police Chief Magazine. Chuck was recently featured on the cover of the National White Collar Crime Center's Informant magazine and a feature guest on the syndicated radio program "The Badge" on SiriusXM. He was a subject matter expert for a Fox nationally syndicated show regarding criminal activity in online dating sites and for the Canadian Broadcasting

perspective of the user - I mean that of the perspective of the investigator. We leave so much data on the web, it can lead to building up an extensive profile and leading us onto data we (and the suspect) didn't know they were leaving. Lets find it.

Human anthropology Versus digital foot printing

How we live, move and react with the real world is reflected in the digit footprint we leave in the virtual world. This session will look at where to look for clues in the data and footprint, to profile and help identify the person leaving it

Social engineering tricks and exploits

This session gives the delegate an understanding of the origins, impact and harm that the modern criminal social engineer plays in crime and intelligence security in the modern day internet. It covers both attack and defence. Can we identify, exploit and copy their tactics?

Deep web analysis. "Googling it" doesn't cut the mustard any more. Its great for cheap flights and deals, but not for looking for people, digital shadows and historic footprints. Search engines can see less than a fifth of the Internet. Where else do

Corporation's national news regarding criminal activity in Virtual Worlds.

Complete Seminar Agenda and Registration

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we need to look? How can we look? What tools are there? Are we just looking at the big sites and should we look at the others? This session will take students deep into the Internet, and surprise many with what we will find, and can achieve, with an emphasis on the mind set, systematic approach and best practice methodology.

Injection and weaponising.

What can be weaponised or injected? How can we do it without detection? The advantages are self explanatory- but what are the pitfalls? What are the legal issues with this type of tracking? Can we do it and if so how?

Tracking Tor users and exploiting system vulnerabilities

Tor is a very difficult nut to crack. What if we stop looking at it and start looking at alternative vulnerabilities – and yes, even Tor has an Achilles heel. Lets have a look at it and start tracking users.

Temporal analysis and attribution. Are we thinking about everything when we track someone online? What sort of digital footprint are they leaving? Are we just looking at the obvious ones or are there

some we don't know about?
How can we find out? How do we cut away the giant virtual haystack of data to find the intelligence needle we were looking for? How can we track people successfully, who are adept at 'hiding' on the Internet? This session will show you how no one can hide. Attribution of a device to an individual is a major problem for Officers and prosecutors alike. This session will teach you good practice to ensure there is sufficient data to prove attribution to an individual.

Attribution

A headache for most prosecutors and investigators. We can put a device at a location but how do we show who was there with the device. What other clues are there to prove ownership and use? Let us look at them all.

MAC, IMSI and IMEI evidential value and opportunities

When we look at devices we focus on carrier, provider and capability. But what about The IMSI, MAC and IMEI? what can we do with these? How can we combat attempts by the user to tumble or mask them?

Advanced device tracking and digital non-visual surveillance

Why does your smart phone battery die in less than a day?
Its because it reaches out to the network 250,000 times an hour to allow you to have the very best experience from your provider. But where are these connections being made? Can the carrier see them? Can we see them and where can we find them? Never think 'there's no trace'. Have you ever had a case that went 'cold'? You will be re visiting it after this session.

Bitcoin tracking and exploits.

Have a bitcoin investigation?
Can't track where the money went? In the real world, we can 'mark bills'. Can we do it with crypto currency? Let us see if we can track it.....

Covert techniques, profiles, identities, legends and tricks

Criminals and bad people play dirty and use dirty tricks. Can we play them at their own game? (Legally). Social engineering, scams, injection, ransomware? Let us brainstorm this and see...

Financial and organisational security

Training for financial institutions and secure organisations re risks and attacks. The view point of the hacker and the would be

thief and how that perception or targetting, of the banks Achilles heel , differs from that of the organisation or the IT within that business. Looking at both the attacking strategies and defensive work to future scan and defend against the as yet unseen threat. Live examples given . Also social engineering scams and defence.

NOTICE

Whilst every effort will be made to avoid, Due to the nature of the course, and live searching in the dark web, students may be exposed to disturbing or sexual images, profanity and graphic content, beyond the control of the presenter.

ABOUT THE INSTRUCTOR

Mark Bentley is a globally recognised communications data expert, who works as an adviser, trainer and consultant to security services, government and police forces around the world.

His experience is based on 35 years as a detective, which includes experience gained working for the UK National Crime Agency (NCA), Metropolitan police, and Child Exploitation and Online

Exploitation (CEOP), in the capacity of overt, reactive and covert operations management.

He has been involved in the tracking of high profile cases, persons and vessels.

He is the Open source expert and lead advisor for forces and government agencies in several countries and advises on data analysis to government agencies, both domestic and abroad. Administrates and runs a leading , dedicated Law enforcement tools site for open sourcing.

His specialist area is device tracking and interrogation, alternative profile digital shadowing, injection and weaponising.

Mark presents this and other subjects to government and law enforcement around the world, both independently, and at ISS world training events. He is a lecturer for International policing organisations, EU cybercrime twinning project, The Council of Europe and The UK College of policing.

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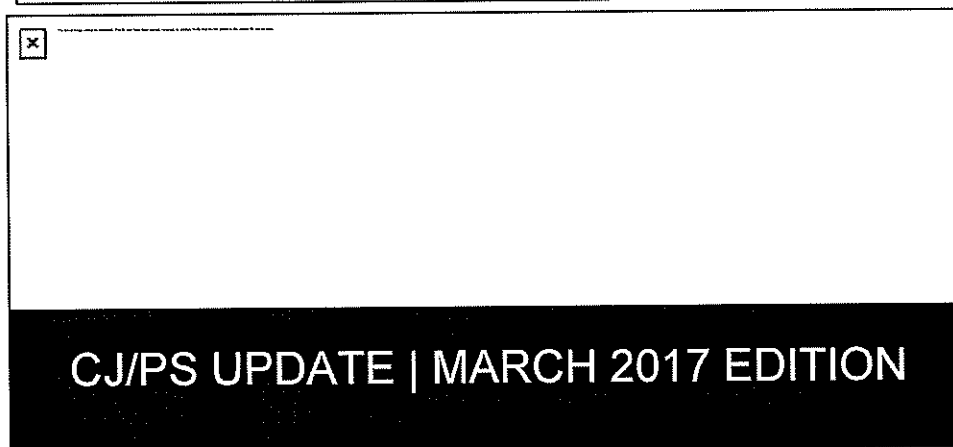
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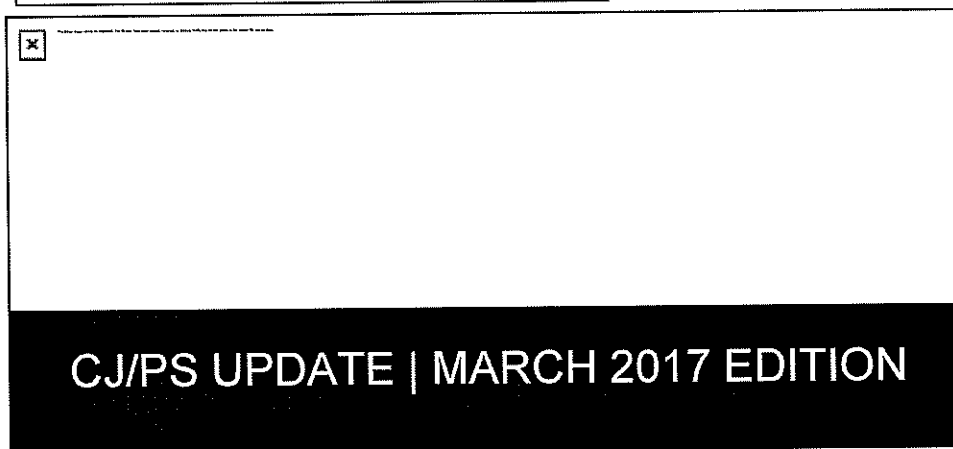
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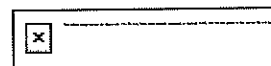
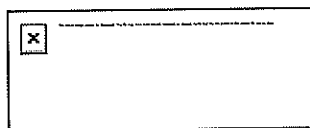
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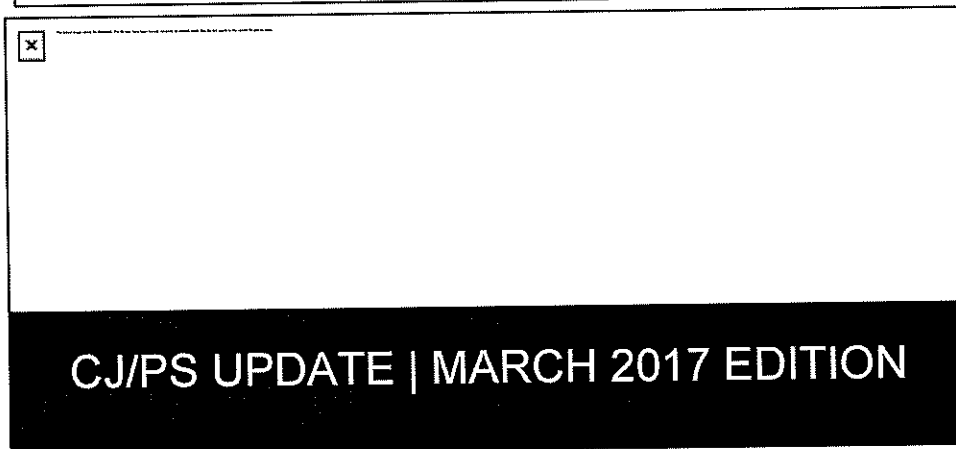
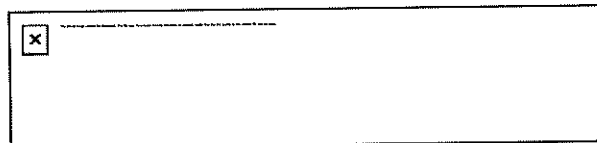
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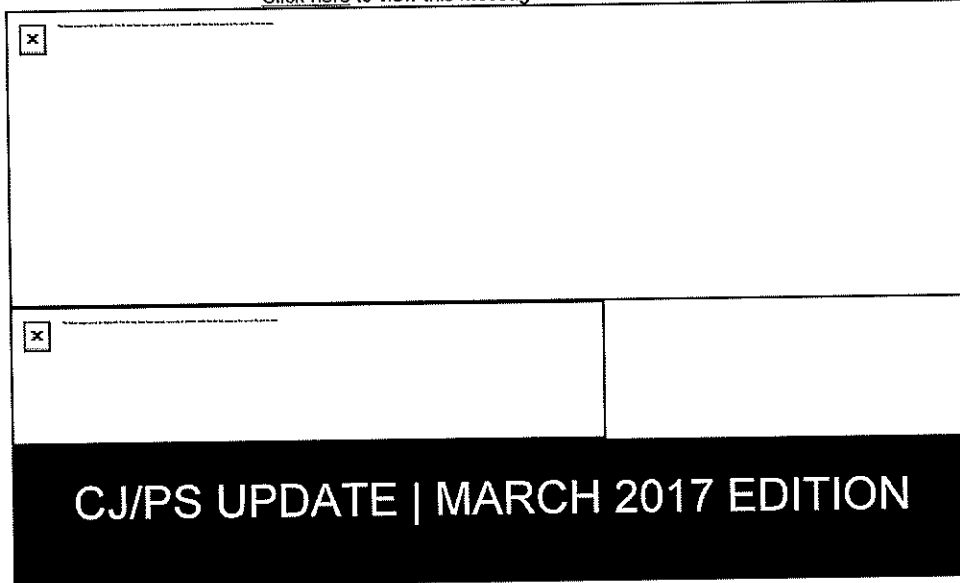
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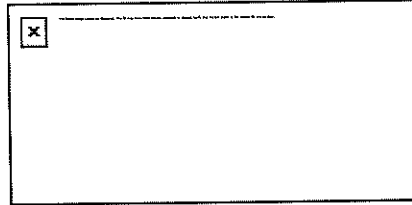
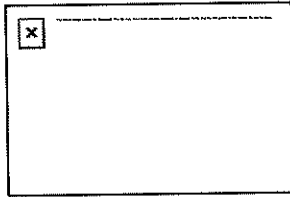
National Criminal History Improvement Program (NCHIP)

Applications Due: April 05, 2017

NICS Act Record Improvement Program (NARIP)

Applications Due: April 19, 2017

Developing Opportunities



The Drawing Board: Here are some of the newly discovered IT initiatives being planned in agencies nationwide:

Status: PRE-RFP

The **Virginia Beach Fire Department** is looking to acquire an **Emergency Crisis Management System** in the future. The Department is seeking a highly configurable software that will replace WebEOC. [Click for opportunity details](#)

Status: INITIATIVE

The **Virginia Beach Fire Department**, in conjunction with the **Virginia Beach Department of Emergency Medical Services**, has identified a need for Fire and EMS Facility Security. The Department is looking to install a security and door access system at all of the fire and EMS facilities.....[Click for opportunity details](#)

Status: PRE-RFP

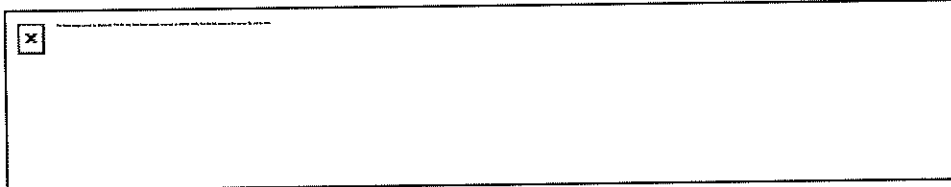
The **Texas Department of Public Safety (TXDPS)** is seeking information regarding a **Texas Data Exchange Program** solution, that meets all Criminal Justice Information Services (CJIS) security requirements and national standards regarding the exchange of data.....[Click for opportunity details](#)

Status: PRE-RFP

The **Los Angeles County Superior Court** is gathering information regarding a **Employee Identification Badging / Access Card System**. The County Superior Court is seeking to.....[Click for opportunity details](#)

Not enough time to respond to RFP's?

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The Deadline

Time is limited on these open solicitations!

Agency	Project	Status	Released	Due
Midland County Sheriff's Office	<u>Integrated Case Management System</u>	RFP	03/01/2017	05/24/2017
Oneida County Department of Emergency Services	<u>Emergency Communications System Improvements-Steel Lattice Antenna Towers</u>	RFB	03/07/2017	03/22/2017
Los Angeles County Sheriff's Department	<u>Software - Maintenance - Annual Renewal - VMWare</u>	RFB	03/03/2017	03/16/2017
Denver Department of Safety (DPS)	<u>Next Gen 9-1-1 Emergency Telephony Platform</u>	RFP	03/06/2017	04/17/2017
West Virginia Department of Military Affairs and Public Safety (DMAPS)	<u>Session-Based Desktop Virtualization Equipment</u>	RFQ	03/06/2017	03/23/2017

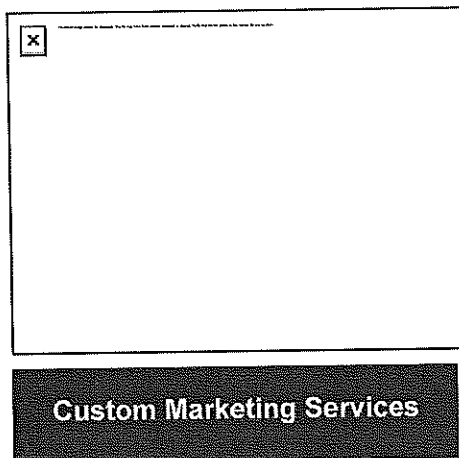
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FUNDING NEWS

[KY Justice Cabinet Accepting Applications for Justice Assistance Grant Program](#)

[Michigan schools awarded \\$2 million in safety, security grants](#)

[State grants keep Delaware police departments up-to-date](#)



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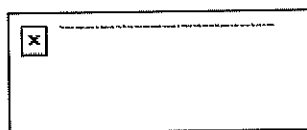
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March 20-24, 2017

Academy of Criminal Justice Sciences (ACJS) 54th Annual Meeting
March 21-25, 2017

**International Law Enforcement Educators and Trainers Association
(ILEETA) Conference & Expo**
March 20-25, 2017

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Stone, Andrea

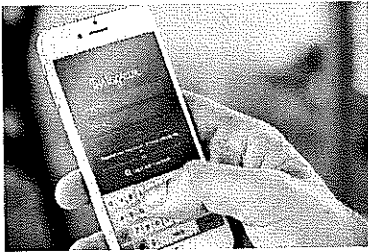
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Sent: Wednesday, March 22, 2017 4:45 PM
To: clandrau@springfieldpolice.net
Subject: iPhone, Mac owners: How to stymie hackers threatening to wipe devices

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Mar 22, 2017



iPhone, Mac owners: How to stymie hackers threatening to wipe devices

Hackers claiming to have hundreds of millions of iCloud credentials have threatened to wipe data from iPhones, iPads and Macs. [Read More ►](#)



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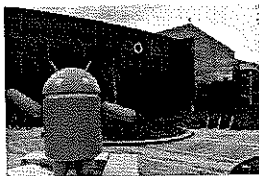
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- U.S. lawmakers question police use of facial recognition tech
- Hackers demand \$150K ransom, threaten to wipe millions of Apple devices
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VIDEO/WEBCAST: CA Technologies

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Google cites progress in Android security, but patching issues linger

The chances of you installing malware on your Android phone is incredibly small, according to Google. [Read More ▶](#)



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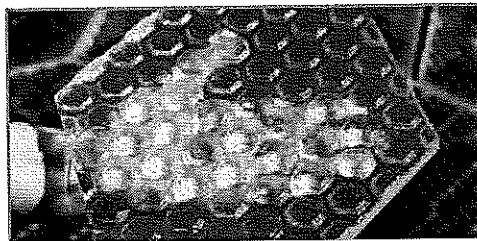
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U.S. lawmakers question police use of facial recognition tech

U.S. lawmakers plan to introduce legislation to limit law enforcement use of facial recognition technology after concerns about the mass collection of photos in police databases. [Read More ▶](#)



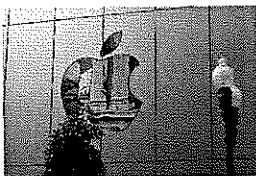
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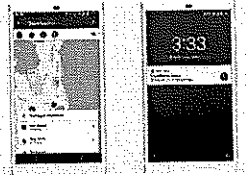
Hackers demand \$150K ransom, threaten to wipe millions of Apple devices

A group of hackers is threatening to wipe millions of iOS devices in two weeks if Apple doesn't pay them \$150,000. [Read More ▶](#)



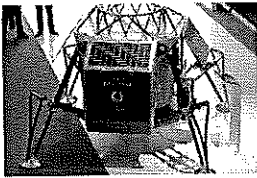
Wal-Mart launches emerging tech incubator

Wal-Mart Stores is creating what it's calling a technology incubator in Silicon Valley that's focused on technologies that will change how people shop. [Read More ▶](#)



Google Maps now lets you share your exact location with friends

Google Maps has enabled a new feature that lets you share your location with friends and family. But there could be a downside. [Read More ►](#)



Vodafone prepares an LTE moon shot -- literally

Thanks to Vodafone, the Taurus-Littrow Valley will get its first mobile phone base station next year. [Read More ►](#)

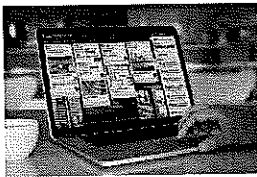


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Trello is getting hooked into the entire Atlassian ecosystem with a series of integrations unveiled Wednesday. The new "power-ups" for the project management software connect it with BitBucket, Jira, HipChat and Confluence. [Read More ►](#)



Microsoft is playing Windows hardball

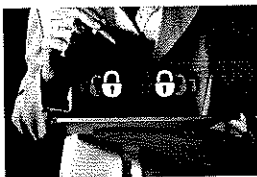
Lucky us. Microsoft will no longer be supporting older Windows on newer processors. [Read More](#)



Jonny Evans: Apple TV just became an enterprise hub for connected things

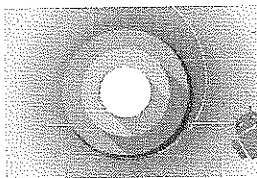
Jamf introduces zero-day support for Apple TV, opening the opportunity for smart automation.

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Darlene Storm: Password-stealing flaws in LastPass Chrome and Firefox extensions

Critical vulnerabilities in the Chrome extension and Firefox add-on for LastPass could be exploited to steal passwords and remotely execute code. [Read More](#)



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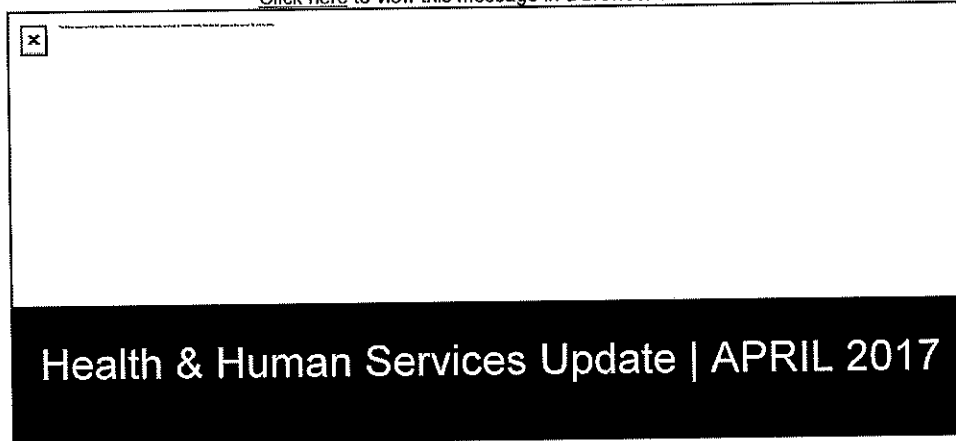
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Sent: Thursday, April 06, 2017 9:58 AM
To: Mellisa Nazzaro
Subject: HHS Update | APRIL 2017

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- Tech + Health | Telemedicine Prospects - Pt 2
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- 11 recent vendor contracts, go-lives
- Could Blockchain Technology Be the Answer to Health IT Interoperability?

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Demographic

Information:

The Nevada Department of Health and Human Services has 5,339 employees.

Procurement

Information:

The Nevada Department of Health and Human Services advertises all solicitations on

Funding Information:

The Nevada Department of Health and Human Services (DHHS) funds technology through state budget requests, and federal grants such as Health IT grants, National Association of State Units on Aging grants and Center for Medicaid and Medicare Services (CMS) grants.

Related Projects:

- Pre-RFP Watch List (CJIS GROUP TR# 89630)
- Pre-RFP Watch List (CJIS GROUP TR# 89628)

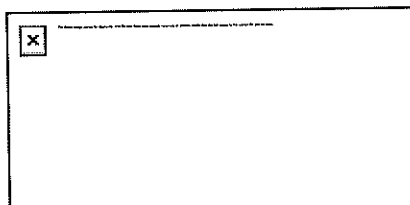
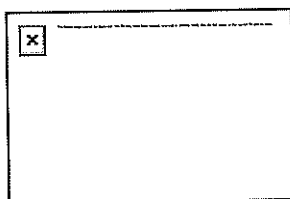
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- Initiative (CJIS GROUP TR# 89627)

Purchasing Web site.

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Developing Opportunities



The Drawing Board: Here are some of the newly discovered IT initiatives being planned in agencies nationwide:

Status: IN HOUSE

The New York State Department of Health is working to establish and maintain an on-line, real-time **Prescription Drug Monitoring Program (I-STOP)** that will track the prescription and dispensing of controlled substances. **Estimated Cost: \$5 - \$10M...** [Click for opportunity details](#)

Status: PROBABLE SOLE SOURCE

The Florida Department of Health, Division of Medical Quality Assurance, Bureau of Operations, will contract with a vendor for the **Licensing and Enforcement Information Database System (LEIDS)** Upgrade/Maintenance effort. **Estimated Cost: \$750K - \$1M...** [Click for opportunity details](#)

Status: PRE-RFP

The Chicago Department of Public Health will acquire **Electronic Health Record System (EHR)**. The system must be a comprehensive electronic health record, including not only the software solution for managing clinical encounter data, but also order entry, patient scheduling, patient registration, insurance validation, and the processing of billing payments. **Estimated Cost: \$2 - \$5M...** [Click for opportunity details](#)

Status: IN HOUSE

The **Massachusetts Department of Children and Families** is working to develop and implement **i-FamilyNet**, the new web-based SACWIS system and Data Warehouse to replace the FamilyNet client/server system currently in use.
Estimated Cost: \$2 - \$5M... [Click for opportunity details](#)

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Funding News

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The Deadline

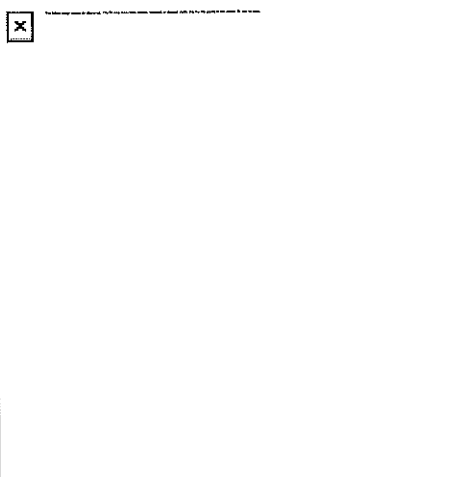
Time is limited on these open solicitations!

Agency	Project	Status	Released	Due
Florida Agency for Health Care Administration (AHCA)	Electronic Visit Verification (EVV) of Home Health Services	INT	02/21/2017	06/02/2017
Michigan Department of Health and Human Services (DHHS)	Aging Information System	RFP	03/24/2017	04/24/2017

Washington State Department of Social and Health Services	<u>IV&V for Security Infrastructure Modernization (DSIM) Project</u>	RFP	03/15/2017	04/24/2017
Maine Department of Health and Human Services	<u>Electronic Benefit Transfer (EBT) Services</u>	RFP	01/17/2017	04/20/2017

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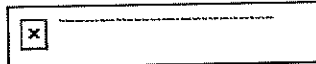
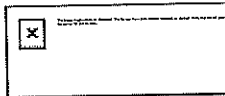
Upcoming Events

- National Association of County & City Health Officials
(NACCHO) Preparedness Summit - April 25-28, 2017
- San Jose Health IT Summit - April 13-14, 2017
- Health Datapalooza - April 27-28, 2017
- American Public Human Services Association
(APHSA) National Health & Human Services Summit -

April 30-May 3, 2017

- **iHealth 2017 Clinical Informatics Conference** - May 2-4, 2017
- **Chicago Health IT Summit** - May 11-12, 2017
- **HPC Spring Hospital & Healthcare I.T. Conference** - May 22-24, 2017

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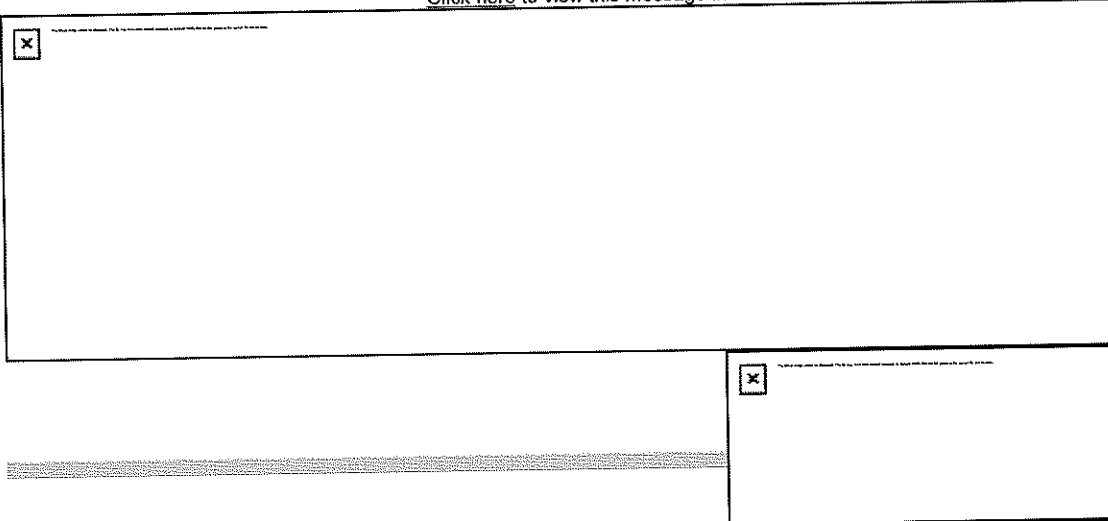
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- Police Body Cameras Would Be Useful, But Expensive To Implement
- Marquette University Establishes Milwaukee Area's First Cyber Security Center
- New Computer-Aided Dispatch System Unites Local Public Safety Agencies
- Greenville Police To Wear Body Cameras By The First Week Of May
- Scott County to pay more for software
- Getting Power To The Grid After A Cyber Attack
- Archiving Tips For Public Sector Agencies
- Kinston Police Start New Initiative To Catch Suspects On Camera
- County, E911 Working On \$3M Radio And Infrastructure Project
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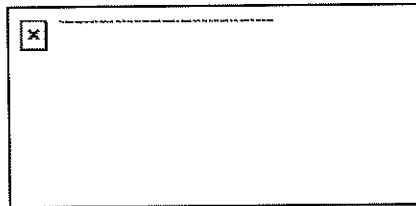
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persistence,
refusal to
succumb to
doubters

DISCIPLINE SPECIFIC RESOURCES

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- FirstNet and Emergency Management

Developing Opportunities

The Drawing Board: Here are some of the newly discovered IT initiatives being planned in agencies nationwide:



Status: PRE-RFP

The **Caddo Parish 9-1-1**, on behalf of the Caddo Parish Sheriff Office, Shreveport Police Department, Shreveport Fire Department, Caddo Parish Fire Districts, Vivian Police Department, Greenwood Police Department, Blanchard Police Department, Oil City Police Department, Mooringsport Police Department, Rodessa Police Department, Gilliam Police Department, Ida Police Department, Hosston Police Department, North Caddo Medical Center, Balentine Ambulance and Life Air Rescue, will acquire a parish-wide **P25 Radio System upgrade (Estimated Cost: \$10M-\$25M)**[Click for opportunity details](#)

Status: PRE-RFP

The **Los Angeles County Metropolitan Transportation Authority (LA METRO)** will complete a **Metro Red Line Access Control Replacement**. The project will consist of replacing the existing 25 year old HID proxcard system with a new Sielox access control system (**Estimated Cost: \$2-\$5M**)[Click for opportunity details](#)

Status: PROBABLE CONTRACT NEGOTIATIONS

The **Texas Office of Court Administration (OCA)**, in conjunction with the Texas Department of Transportation Texas, is planning to implement a **Statewide Electronic Citation System**. OCA is exploring the potential means and cost of developing, implementing and operating a Statewide Electronic Citation System to capture electronic and paper citations from participating jurisdictions.....[Click for opportunity details](#)

Status: PRE-RFQ WATCH LIST

The **Pennsylvania Department of Transportation (PennDOT)** has determined the need for a new **Modernized Vehicle Driver License System ("MVDLS")**. PennDOT intends to modernize Driver and Vehicle Services systems built on technologies that have become outdated.....[Click for opportunity details](#)

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[Crossmatch to reveal the Nomad at connect.ID 2017](#)

[NEC software uses facial recognition to verify mobile service users facial-
recognition](#)

[Hacker Tracker: New Threats And Old Classics](#)

[IMT And Vislink Display Newsnet Technological Ecosystem at NAB 2017](#)

[For Earth Day, Microsoft outlines its efforts to create smarter, more
efficient cities](#)

[Microsoft Ups The Ante In Enterprise IoT and Edge Computing](#)

[Local investment in public safety communications infrastructure pay off
during Florida disasters](#)

[Siemens Healthineers makes its mark in population health through
Medicalis acquisition](#)

[OneNeck IT Solutions completes HIPAA and HITECH examination](#)

[Federal Engineering to Provide Public Safety Consulting Services To the
City of Seattle](#)

[GovTech Founder Series: Founders of Public Safety Software Startup](#)

[Mark43 on Launching, Long-Term Vision](#)

[Harris Corporation's Global Innovation Center Achieves LEED Silver
Certification](#)

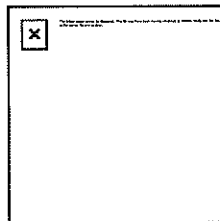
[Verizon Invests \\$1.05 Billion In Fiber Optics](#)

[CompassData's Ground Control and FAA-Certified Airport Data Now
Available on Carahsoft](#)

Funding News

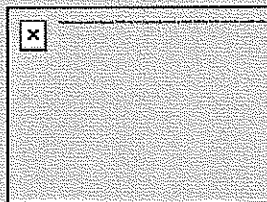
- [LoBiondo Announces Nearly \\$8,000 To Oceanville Fire Company](#)
- [Jail Study Points To Alternative Methods For Housing Pretrial Inmates](#)
- [Woodstock Police Adopt Body-Worn Cameras](#)
- [Portland Secures Funding For Body Camera Pilot Program](#)
- [Stark County Sales Tax Renewal: What You Need to Know](#)
- [Campbell to Raise Fee for 911 to Pay for New Radio System](#)

- Sheriff Seeks \$1.3 Million Technology Upgrade
- McAuliffe Announces \$365,000 Federal Grant for Virginia Public Safety Agencies
- Council Approves Financing for Teaneck Road, Votee Park



TIME IS LIMITED ON THESE SOLICITATIONS!

Agency	Project	Status	Release Date	Due Date
Lauderhill Police Department	<u>Wearable Body Cameras</u>	RFP	04/25/2017	05/30/2017
Central Ohio Transit Authority	<u>Electronic Access Control System</u>	RFB	04/25/2017	05/25/2017
Minnesota Department of Human Services	<u>GPS Monitoring System</u>	RFP	04/24/2017	05/19/2017
El Dorado County Information Technologies Department	<u>VMWare Enterprise Software and Production Support</u>	ITB	04/26/2017	05/12/2017
Monroe County Department of Public Safety	<u>Computer Aided Dispatch (CAD) and Mobile Communications</u>	RFP	04/24/2017	06/02/2017



CJIS GROUP is committed to helping you create and execute a winning strategy! ..

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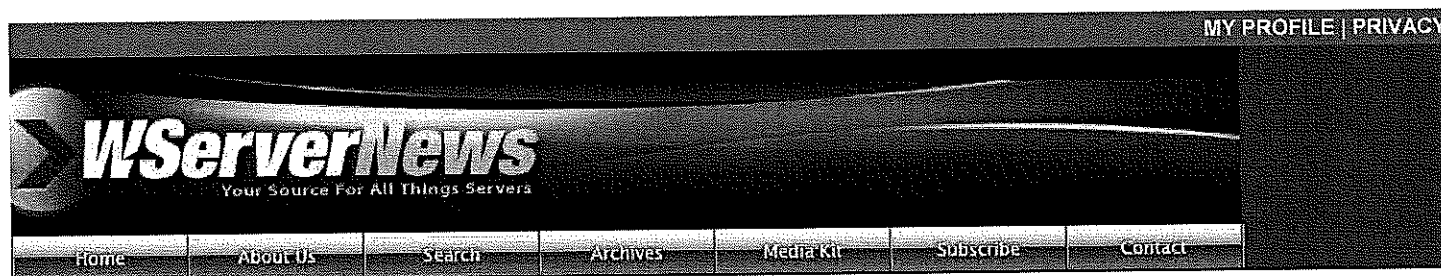


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(You can also send your request to **Customer Care** at the street address above.)

Stone, Andrea

From: WServerNews.com <do_not_reply@wservernews.com>
Sent: Monday, May 01, 2017 2:58 PM
To: clandrau@springfieldpolice.net
Subject: Reader feedback: Reconsidering biometric security



Vol. 22, #18 - May 01, 2017 - Issue #1129

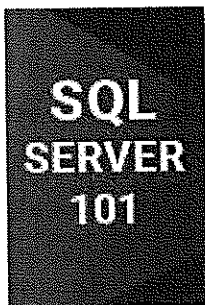


Reader feedback: Reconsidering biometric security

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 - Four questions to ask before choosing virtual or web-based apps
- **WServerNews FAVE Links**
 - Personal Electric Seaplane By Google Co-Founder Larry Page
 - Extremely Low Flying Su-37 Jet
 - World's First Electric Vertical Takeoff And Landing Jet Completes Maiden Flight
 - Climbing A Dam In A Land Rover
- **WServerNews - Product of the Week**
 - What is SQL Server?

What is SQL Server?



This white paper is a FREE self-study guide for learning SQL Server fundamentals. It includes both the history of SQL and its technical basics. Concepts and definitions provided in this white paper will give you a solid foundation for your future DBA expertise. Learn about the most common SQL Server services running under your OS, database types and their specific roles, transaction logging and maintaining SQL Server security.

[Read Now.](#)

Editor's Corner

- **SAVE THIS NEWSLETTER** so you can refer back to it later for helpful tips, tools and resources!
- **SEND YOUR FEEDBACK** to wsn@mtit.com if you have any comments or suggestions!

This week's newsletter takes another look at issues surrounding biometric security by hearing some of the feedback we've received from readers concerning [Issue #1127 Reconsidering biometric security](#). And be sure to check out our **This Week's Tips** section for a couple of problems readers have encountered upgrading their PCs to Windows 10 Creators Update and how they resolved the problems. We also have some other tips, tools, and other stuff to fill the vacuum in your brain that results from staring at a computer screen all day long (which is not as bad though as the vacuum that fills the brains of smartphone addicts).

We know of course that "nature abhors a vacuum" but besides the dangers of the vacuum of outer space there are other even more sinister things that can happen when you encounter a vacuum as this Dilbert comic illustrates:

<http://www.wservernews.com/go/likn6pmg/>

Ask Our Readers - Support for HP Home Server?

From a reader named Jack came the following request:

I am probably one of many who invested in the HP Home Server/Microsoft Home Server a few years ago because it was very easy to understand and use (for us, computer illiterates). Then all of a sudden support became almost non-existent, the non-existent. Not even HP who manufactured the hardware supports it even though it is still on their website with no working links of course and no support even when you ask them about it. When mine no longer backs up anything completely, I tried to use another server system and NAS system but totally at a loss. Do you have any ideas on where or if there are any sites that still have forums or help on the Home Server?

Can any readers help Jack with his request? Email your suggestions to us at wsn@mtit.com

Ask Our Readers: WServerNews has almost 100,000 subscribers worldwide. That's a lot of expertise to tap into. Do you need help with some issue or need advice on something IT-related? Got a question you'd like us to toss out to our readers to try and answer? Email us at wsn@mtit.com

And now on to some of the feedback we've received concerning biometric security...

Reader feedback: Reconsidering biometric security

A number of our readers have voiced some concerns about the value and/or integrity of biometrics as an authentication platform. Here in no particular order is a sampling of the feedback we've received on this subject:

Biometrics do have a fundamental flaw for some security uses -- you cannot directly revoke them i.e. you can't chop my finger off and give me a new one. So systems have to be developed to deal with this in a different way. Many years ago (~30) I had a customer who did fingerprint recognition and proudly told me that they could tell whether it was a live finger or a dead finger. Various sorts of biometric recognition are used in passports in Europe. The first one they introduced is facial recognition using your passport photograph. The problem is that I wear glasses and some machines tell you to take them off. My experience is that the UK electronic passport gates recognize me less than 20% of the time; with other countries I only have a small sample size, but Barcelona seems not to recognize many people at all, and with only one manual agent it took an hour to get through, but Finland surprisingly has worked every time. I heard, but can't verify, that at one point the machines (I won't name where) were only actually recognizing about 30% of the people they were letting through so people had the impression they worked, but they didn't really. My own experience of the fingerprint recognition on my Android phone is that it doesn't work for a couple of minutes after I have washed my hands and when I had been stacking bricks for a few hours, it would not recognize my finger for a week. This latter problem could be solved by using the separate, different, sub-cutaneous fingerprint, but that would be a more expensive scanner. One of the problems with biometrics is that the fundamental premise is based on probabilities, unlike the certainty with say a password or code, which either matches or does not match. And with probabilities, no matter how small, what do you do about a false negative? How do you prove you are who you say you are when "the computer says no"? I suspect the answer is to use multiple biometrics e.g. facial recognition and fingerprints. Facial recognition could be improved in stages by first using both a face on picture and a profile picture, making it harder to fake, and then eventually going to a 3D scan of the face. Maybe we will end up with two factor authentication -- biometrics and an implanted coded chip; after all, we insist that dogs and some other animals have implanted chips to travel internationally. -- Tony from the UK

I have been hospitalized in the last month with pulmonary embolus, doing well, but the close call with the "Grim Reaper" has made my manager at work ask the question "What if something

happens to you?" As the lone IT guy, I have a password protected Word document of passwords for each website or application I access, but what if they could not get into my computer? Biometrics, especially voice recognition, would paralyze the organization due to lack of access to the "stuff" I find important. Not a great idea. I also noted that my health insurer is going the same way with biometric voice recognition. How would my survivors access my records? As it stands now, as long as they can get into my email account (or some web browser), they can access my information via my Norton Vault account, which fills in my account information and in you go. I understand the need to secure your devices, network, data, etc., but there has to be a workaround for some of this stuff. P.S. I have discovered that even within the same health organization, with massive amounts of information generated among many different health care providers, when I go to a different office my insurance card is requested (even if scanned into the system three times in fourteen days) and asked all kinds of questions that should be visible to the person looking at the computer screen. What happened to the "portability" promised when we went to electronic records for patients? They appear to be so secure as to be unusable! --David

Hacking biometrics has been around since the advent of the solutions, and as with all authentication, hacks with varying degrees of complexity and rates of success have been spawned. My biggest concern with biometric authentication is a legal problem, not a technical one. If you use biometric technology to lock or unlock something, US law enforcement can legally force you to present your credential because it is something you are. They cannot force you to divulge a password/passcode/passphrase because it is protected by the Fourth and Fifth amendments. For this reason alone, something you know should be a foundational part of authenticating yourself to any system capable of accessing high worth assets without regard for what those assets might be. I attended a card issuer convention once where Bruce Schneier was speaking, and he had drawn the ire of many vendors at this conference by stating their card systems don't solve the authentication problem. Moreover, Bruce said authentication is the most challenging subject in all of security. How do I know you are who you claim to be? Impersonation is as old as humanity, and despite the best efforts of bright minds over millions of years, it remains the most difficult security problem to address. Even if we could test DNA directly in real time, someone would find a way to cause Type 1 and Type 2 errors in the system or create a "sample in the middle" attack, or... Build a system of rules, and those who do not wish to follow them will immediately focus on finding a way to subvert them. It is truly fundamentally human. --Lance, CISSP, PCIP

I am no expert, but to my view (I do have graduate degrees in biz, engineering and CS...), it boils down to this simple fact: Biometric datasets are NOT changeable like an ID/PW pair. They are forever (until the plastic surgeons develop the methods)..... Re-codable, yes, encryptable (god, I hope so), yes, hashable, yes, but unlike passwords and other even multifactor techniques, they are not resettable. So once "in the open" there is an intractable violation of personal data. Where does this leave us for the future of the ultimate security (and convenience) of Bio-signatures as we are clearly not able to, as a society, government or corporation, preserving personal security and data. My iris (or you name the bio-marker) may be unique, but will it remain UNKNOWN to the scam-o-sphere? Will it go for the same \$1 that my VISA account info goes for on the Eastern European markets? I will tell you, as a special employee of the US Treasury Department, my entire personnel file was hacked about two years ago.And in it were my fingerprints (and a number of incredibly private things) -- in whatever hashed format they used (probably none, knowing the government). And for that violation I didn't even get a classic cheap Disneyland T-shirt.... Just a cold, anonymous apology from my government. Nice. So now my "unresetable" fingerprints are out there. My conclusion: you simply have to be nuts to give up any (ANY!) discretionary bio-ID info to any entity today. -- Erik from Seattle, USA

I think the wrong question is being asked. The question being asked is if we TRUST biometric systems and would we use them. I think the better question is: how do you authenticate users today and do you trust that? If today you are using simple username and password combinations. I would

think that is a VERY circumventable mechanism, especially in a non-technical user group with low education where password are often on sticky under the keyboard. I doubt there is a perfect mechanism but biometrics is an option on the table. I wish that this technology was available, inexpensively to many more organizations. I am on the board of a local non-profit community association. Many years ago, they did some fund-raising to replace all the interior building door locks with pin-pad activated door handles. However, without good documentation and processes, the situation has degraded into a state where 3 codes are shared freely with whomever needs them. The idea was to eliminate the need to manage physical keys but I think we have a worse situation today. Frankly, I love TouchID, it allows me easy, quick, painless access to my technology without complexity and gives me a "better" level of security than a 4-digit pin lock. Yes, this email has jumped about from physical door locks to mobility and again, proof that authentication is MORE than something to protect a network or server. -- Eldon

Many years ago I worked for a company that was considering a wide array of biometrics for secured access, etc. Facilities and IT received tons of pushback from HR as there can be certain privacy and HIPAA requirements for some of the more intrusive biometric devices. For example, retina scans. You can learn a lot about a person from scanning his/her retina. And if you have a union workplace. Woah boy! Watch out for the pushback. -- Peter, IT Availability & Production Manager for a company in Maryland, USA

The question "Do I really want an absolute biometric identification of me?" Once you have such an ID it is unchangeable and valid till you die; remember it was developed to be that way! And once this basically analog reading is in digital form on a computer it can go anywhere without the holders or your knowledge or permission. -- Stuart

Send us your feedback

Got feedback about anything in this issue of WServerNews? Email us at wsn@mtit.com

Recommended for Learning

VIDEO: An overview of Windows Defender Advanced Threat Protection for Windows 10

Senior Windows Product Manager, Heike Ritter offers a cohesive overview of Windows Defender Advanced Threat Protection for Windows 10. This includes new capabilities with the Windows Creators Update for detecting, investigating and containing breaches such as in-memory attacks and Kernel exploits. See how Windows Defender Advanced Threat Protection works at scale to expose otherwise undetected threats; investigate and understand the scope of breaches and contain and respond to threats.

<http://www.wservernews.com/go/g6mhfygi/>

Microsoft Virtual Academy

Planning for a Security Incident

Are you ready for a security incident? Would you like to explore real-world enterprise security threats, from the perspective of the Microsoft Global Enterprise Incident Response and Recovery team? Join senior team members Chris Ard and Lesley Kipling for an in-depth look, based on actual experience, with examples and stories from the field. Learn what customers need to be doing now to prepare for an incident. Get an in-depth look at the paradigm shift from "Are we secure?" to "Are we ready?" Modules focus on the three pillars that make up the Microsoft Security Framework: "Protect," "Detect," and "Respond." Consider the best approach for response—before an incident occurs. Find out how to improve detection, use threat modeling to understand the risks, and much more.

<http://www.wservernews.com/go/2qbr02rf/>

Factoid of the Week

Before we examine the feedback we received from last week's factoid let's visit a couple of earlier factoids from our newsletter.

In Issue #1126 we asked "When was the last time you saw a phonebooth? And when was the last time you *used* a phonebooth?" Craig, a Business Manager from Australia, replied:

A few years ago I went on a charity motorbike ride through the south west corner of Australia. Being a large country with a small population, there are significant areas that don't have decent mobile -- sorry, cell coverage. One tiny little town that consisted of a hotel and about 10 houses was one such place. Not getting reception I asked the publican if there was somewhere in town where reception was better and he said yes. He pointed me to a landmark a few hundred metres -- sorry, yards, to the top of the hill and you can get reception from the towers in the next town. What was the landmark? A public telephone box. That's right -- the only place in town you can use your mobile phone was just outside the public phone box. Either somebody has a delicious sense of irony or they simply don't get the point of a mobile phone.

In Issue #1127 we asked "How do you usually respond when someone asks, How are you? Why do you respond that way?" A reader named Michael analyzed this as follows:

The response is culturally-biased. In the American South, this is social butter -- that is, it is meant to smooth the interactions between individuals. This isn't any different than the (truthful) cliché about southern waitresses calling their customers darling and honey and sweetie. It makes someone feel comfortable and at home. In the American South, if I go to a fast food restaurant where the order-taker is not polite -- I will either complain to the manager or walk out. However -- we don't really want to know how you are. It's just social butter. The cultural bias.

In the American North-East, no one cares. A waitress walks up and says "what you want?". In a fast food restaurant, the order-taker just stands there until you blurt your order. As someone from North Carolina, I think this is just rude. They obviously don't give a crap about the customer, except for their money. The cultural bias.

In center and eastern Europe, if you ask someone "how are you?" -- they will tell you. In detail. That is their cultural bias.

Generally speaking, I have found that, for all the countries I have visited, that saying "hi" or "hello" is far better than saying "hi, how are you?" or "howdy?".

Now let's move on. Last week's factoid and question was this:

What was the most embarrassing thing you've ever seen yourself on a live TV show you were watching?

Some of the responses we received included the following:

On Fox9 Minneapolis/St Paul, weatherman Steve Fraizer was on air when he suddenly reached over his shoulder into the back of his suit and pulled out the hanger that his suit coat had been on. Another time, Steve Frazier was warning viewers how cold it was going to be and told everyone to be sure to cover their "cracks and crevices". This caused the anchors to absolutely lose control of their laughter. Steve had no clue and repeated the warning several times. -- Don

News coverage of the plane crash, Asiana Flight 214. When they announced the pilots: "Sum Ting Wong, Wi Tu Lo, Ho Lee Fuk, Bang Ding Ow..." -- another Don

Warren Beatty & Faye Dunaway at the 2017 Oscars -- Butch

Now let's move on to this week's factoid:

Fact: Canadians like myself have a reputation for being nice and polite. But just try saying something to us using a fake "Canadian accent" and you'll quickly raise our ire! Grrr...

Source: <http://www.wservernews.com/go/89suyo4r/>

Question: What might arouse a similar hostile response if someone from another country came to your own country and spoke with you? In other words, what word, phrase, or style of speaking would get an American / Brit / German / Aussie / etc VERY angry? :-)

Email your answer to us at: wsn@mtit.com

Until next week,

Mitch Tulloch

Admin Toolbox

Admin Tools We Think You Shouldn't Be Without

GOT ADMIN TOOLS or other software/hardware you'd like to recommend? Email us at wsn@mtit.com

Free webinar course: Learn PowerShell, a FREE guide through PowerShell basics. Find out about specific PowerShell extensions for different platforms and get an overview of cmdlets.

<http://www.wservernews.com/go/extn1tcd/>

AquaSnap is a tiling windows manager for Windows that can make you more productive:

<http://www.wservernews.com/go/cfbpm34j/>

SPDocKit is a SharePoint administration tool that helps you create SharePoint documentation and analyze it according to best practices as well as manage permissions, enforce governance policies, monitor farm health, and more:

<http://www.wservernews.com/go/9xsra2bs/>

TidyTabs is a terrific tabbed windows manager for Windows that lets you tabbify everything:

<http://www.wservernews.com/go/czldkug9/>

This Week's Tips

GOT TIPS you'd like to share with other readers? Email us at wsn@mtit.com

Windows 10 Creators Update - Problem upgrading over wireless network

Sam Garcia emailed us a week ago describing problems he was having upgrading some Windows 10 computers to the Creators Update version:

[The upgrade] seems to disable the network card and/or wireless connection also. So far 10 computers are victims, 60 are good. The oldest (2012) are really hurting, Thanks for the rollback function, but not easy to use.

A week later I asked Sam for an update on his situation and he replied:

Upgrading using cable not wireless solved the problem. How about that?

Readers who are planning on performing the upgrade might want to take note of Sam's experience. Have any readers out there experienced something similar? Email us at wsn@mtit.com

Windows 10 Creators Update - Problem upgrading due to installed device drivers

Tom Philo emailed us two weeks ago about his experiences upgrading to Creators Update:

Installed, via ISO, onto 3 year old Gateway with no issues. Cannot install on main desktop -- tried 3 times after removing peripherals, cleaning registry etc -- on my AMD system with it going into a hard wait at 14% install - requires hard reset then the resulting (after restore to prior Windows version) with the error message after logging back into my system "The installation failed in the SAFE_OS phase during APPLY_IMAGE operation". Error logs give no clue what really was going on during that phase or what caused it to hang."

I pinged Tom a week later to see whether he had resolved his problem and he replied:

Windows 10 Creator's Upgrade success - on 4th try! I figured out what they really meant by driver updates in that error message and went through all 167 devices in my device driver list within the system, one at a time, right clicked on it and told it to update driver by searching online.

Nine devices had updates - one (or more) of which was preventing W10CE to be installed. The longest driver update was for the Logitech W310 Web camera -- took a minute. The others only took 20 seconds, including search time, or so to update. I am on FIOS 25 megabytes down per second, so real fast.

Only one driver update stated that the system required a reboot, I did the reboot, went through the final set of devices to check, rebooted and then it finally installed from the ISO I had already downloaded onto one of my drives.

Their suggestion of disconnecting devices is bogus -- since the drivers for any device is still in the system even if the external item is not connected -- it still exists. Reading that made me think of the system device list and do check each driver one at a time to check for updates via that method.

Readers who are planning on performing the upgrade might want to take note of Tom's experience. Have any readers out there experienced something similar? Email us at wsn@mtit.com

Non-profit organizations (NPOs) - Get a donation of \$5000 towards an Azure subscription

From a reader named Bob comes news that Microsoft has a \$5000 donation to qualifying non-profits towards their annual Azure subscription. There's a link on the below page to TechSoup for a validation token so an NPO has to be registered on that site:

<http://www.wservernews.com/go/jkgn6l1i/>

Events Calendar

Microsoft Build in May 10-12, 2017 in Seattle, Washington.

<http://www.wservernews.com/go/qb9opurg/>

Microsoft Worldwide Partner Conference (WPC) on July 9-13, 2017 in Washington, D.C.

<http://www.wservernews.com/go/rumh37uq/>

Microsoft Ignite on September 25-29, 2017 in Orlando, Florida

<http://www.wservernews.com/go/rw1hxlnp/>

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New on TechGenix.com

Keep those backdoors closed!

Whether you're dealing with hardware or software, as an administrator you need to be aware of potential backdoors and be sure you keep them firmly closed!

<http://www.wservernews.com/go/wrj7tqr7/>

Everything you need to know about Azure Search

Azure Search is a managed search feature from Microsoft that gives you complete control over what you want to display to users. Here's how to use it.

<http://www.wservernews.com/go/bz64mlar/>

Moving On to Hosted Exchange? Keep this Checklist Handy

Before the Exchange 2010 era, enterprises were not entirely convinced with the idea of Hosted Exchange.

<http://www.wservernews.com/go/gxwa239a/>

Citrix XenDesktop Essentials and XenApp Essentials now available in Azure marketplace

The Azure marketplace has welcomed two new Citrix products, XenApp Essentials and XenDesktop Essentials.

<http://www.wservernews.com/go/oguh9zxz/>

Top enterprise tech trends that should be on every CIO's radar

CIOs must identify the innovations that can help their origination achieve its IT goals. Here's a guide to the hottest strategic technology trends.

<http://www.wservernews.com/go/hjv677u0/>

Tech Briefing

Azure

Azure Template to deploy a forest with two domains, Part 3 - visualizing the template (Online memory of an Active Directory PFE)

<http://www.wservernews.com/go/5tpd38bh/>

Reduce running costs for your RDS Deployment in Azure using Auto-Scaling (Tip of the Day)

<http://www.wservernews.com/go/t4cekhdo/>

Citrix

Citrix to Help Move Windows 10 to the Cloud (myITforum)

<http://www.wservernews.com/go/q05bbbspn/>

How to install and configure Citrix XenDesktop 7.12 with Windows Server 2016 hosts running on Microsoft Azure (RobinHobo)

<http://www.wservernews.com/go/jfai9c9s/>

DevOps

Automatically build and deploy ASP.NET Core projects to Azure App Services (The Visual Studio Blog)

<http://www.wservernews.com/go/lw9wof0b/>

Documentation in a DevOps World (Premier Developer)

<http://www.wservernews.com/go/wmo7dy00/>

Office 365

From Office 365 To Azure Machine Learning, These Five MVPs Share Their Insights (Microsoft MVP Award Program Blog)

<http://www.wservernews.com/go/pizei4cg/>

10 time saving, productivity boosting Office tips for staff and students (Microsoft UK Schools blog)

<http://www.wservernews.com/go/ynqaioxw/>

PowerShell

PowerShell on Linux and Mac (Luís Henrique Demetrio)

<http://www.wservernews.com/go/30jx2lv6/>

PowerShell: How to add enhanced detection methods to deployment types (1705 TP) (Adam Meltzer's Configuration Manager Blog)

<http://www.wservernews.com/go/59qyjhlh/>

Other Articles of Interest

New tool translates Windows 10 Group Policy Objects into MDM policies

Windows 10 has a new migration tool that aims to provide organizations with a way to manage PCs more like mobile devices. Microsoft's new MDM Migration Analysis Tool (MMAT) can save IT admins a lot of work by inspecting an organization's Windows 10 GPOs and finding MDM policies that match. Learn more about this tool and what it has to offer.

<http://www.wservernews.com/go/lgj74yjlw/>

NVIDIA, AMD, and Intel: How they do their GPU virtualization

With several companies now competing in the GPU market, use this resource to help compare vendors by taking a closer look at the features they offer, use cases for each and the approach they take to GPU virtualization.

<http://www.wservernews.com/go/632nwh28/>

How to craft the best mobile strategies for business

In today's mobile centric world, employees expect anytime, anywhere access to data and applications -from any device. Enterprises are faced with crafting EMM strategies that meet the flexibility needs of their workforce, while also keeping security and cost under control. Access this tip, for a few guidelines to optimize mobility for specific settings.

<http://www.wservernews.com/go/iylh9prl/>

Four questions to ask before choosing virtual or web-based apps

When it comes to delivering applications to end users, it can be difficult to choose between virtual or web-based apps. IT admins should be asking these 4 important questions about their networks, users, and applications before making a decision.

<http://www.wservernews.com/go/n7r1zpq5/>

WServerNews FAVE Links

This Week's Links We Like. Tips, Hints And Fun Stuff

GOT FUN VIDEOS or other fun links to suggest you'd like to recommend? Email us at wsn@mtit.com



Personal Electric Seaplane By Google Co-Founder Larry Page

The Kitty Hawk Flyer, which is backed by Google co-founder Larry Page, does not require a pilot's license. You can learn to fly it in minutes:

<http://www.wservernews.com/go/xr7kne5m/>

Extremely Low Flying Su-37 Jet

An extremely low flying Russian Su-37 jet - with an ending that will surprise you:

<http://www.wservernews.com/go/wam1ky6g/>

World's First Electric Vertical Takeoff And Landing Jet Completes Maiden Flight

Lilium Aviation from Munich, Germany successfully completed the first test flight of its all-electric, two-seater, vertical take-off and landing (VTOL) aircraft prototype:

<http://www.wservernews.com/go/fn1fkohq/>

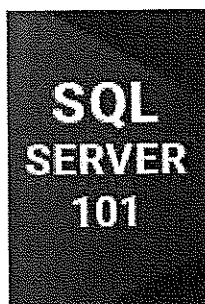
Climbing A Dam In A Land Rover

Richard Hammond has to climb Claerwen dam in a sixty four year old Land Rover. Can he do it?

<http://www.wservernews.com/go/emtycghx/>

WServerNews - Product of the Week

What is SQL Server?



This white paper is a FREE self-study guide for learning SQL Server fundamentals. It includes both the history of SQL and its technical basics. Concepts and definitions provided in this white paper will give you a solid foundation for your future DBA expertise. Learn about the most common SQL Server services running under your OS, database types and their specific roles, transaction logging and maintaining SQL Server security.

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WServerNews - Editors

Mitch Tulloch is Senior Editor of WServerNews and is a widely recognized expert on Windows administration, deployment and virtualization. Mitch was lead author of the bestselling Windows 7 Resource Kit and has been author or series editor for almost fifty books mostly published by Microsoft Press. Mitch is also a ten-time recipient of Microsoft's Most Valuable Professional (MVP) award for his outstanding contributions in support of the global IT pro community. Mitch owns and runs an information technology content development business based in Winnipeg, Canada. For more information see www.mtit.com.

Ingrid Tulloch is Associate Editor of WServerNews and was co-author of the Microsoft Encyclopedia of Networking from Microsoft Press. Ingrid is also manages research and marketing for our content development business and has co-developed university-level courses in Information Security Management for a Masters of Business Administration program.

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From: PoliceOne Roll Call <Newsletter@policeone.com>
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To: ebarbieri@springfieldpolice.net
Subject: City mistakenly honors suspected cop killer; Lawmakers: Make rioting a felony

May 19, 2017 | [View as webpage](#)

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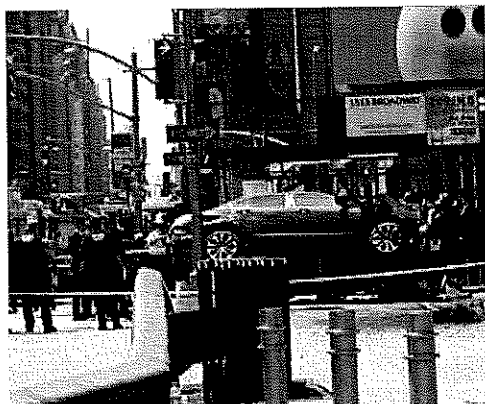
This week, we launched our [2017 Guide to Emerging Technologies](#) — a special coverage series focused on the tools shaping future law enforcement operations.

This special report features expert analysis on soundwave technology, facial recognition software, handheld narcotics analyzers, the future of traffic stops, how constitutional law impacts the collection of data for investigations, and how advancements in biometric technologies will help improve correctional facilities.

From crafting policy to tactical considerations, [this guide](#) will help your agency best prepare as adoption of these technologies becomes more widespread.

— *The PoliceOne Team*

TOP NEWS



**Suspect in deadly Times
Square mayhem charged with**

murder



Video: Deputy shoots armed man who charged at him during traffic stop



LA sheriff says feds should restore military gear for police

- **Ga. deputy injured in head-on crash:** There is no word on the deputy's condition
- **Man plows through immigration checkpoint, shoots at border agents:** Agents returned fire and shot the suspect
- **NY trooper seriously injured during traffic stop:** The trooper was conducting a traffic stop when the patrol vehicle was struck by a pickup truck

- **US: Immigrant arrests soar under Trump, fewer deported**
- **Grand jury declines to indict Texas cop who fatally shot armed inmate**
- **Black judge refuses to step down from white officer's trial**
- **City mistakenly honors man suspected of killing officer**
- **Chicago police release final version of use-of-force policy**
- **Wis. lawmakers: Rioting should be a felony**

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POLICE TRAINING

20 leadership tips for firearms instructors



By Quinn Cunningham, PoliceOne Contributor

Having the rapport and respect of your students will help you deliver effective firearms instruction.

[Give up control to gain control >](#)

PRODUCT VIDEOS



Stun-Cuff Institutional Single Dual Cuff Video
Deputies, SWAT team members and even a sheriff taking hits.

FEATURED JOB

Metro Transit Police Officer
Washington, DC
Entry level: \$53,012 annual

POLICING MATTERS PODCAST

Should cops shoot at moving vehicles?

FINANCIAL PLANNING

Financial fitness for law enforcement officers



By Matthew Loux, American Military University

The financial health of officers is extremely important to help reduce stress, alleviate ethical issues, maintain security clearances, and stop living paycheck-to-paycheck.

[Planning for the future >](#)

FEATURED DEALS



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More Featured Deals



By Jim Dudley and Doug Wyllie, P1 Columnists

Jim and Doug discuss why they feel "no shooting at vehicles, ever" policies don't make sense.

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ORIGINAL VIDEO

Reality Training: Lessons in tactical medicine



Cops are often first on the scene of a medical emergency, and sometimes the nature of the call does not allow time to wait for paramedics or fire to arrive.

[Watch >](#)

P1 PHOTO OF THE WEEK

Through rain, snow, sleet and hail



By PoliceOne Members

Members of the West Hartford (Conn.) Honor Guard performed a funeral detail for the mother of a retired officer in February of 2017.

[Enduring all conditions >](#)

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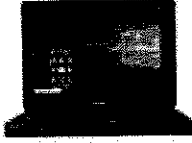
Video: Police, firefighters rescue horse stuck in thick mud



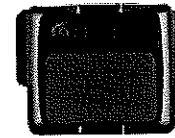
Photos: Australia cop, baby kangaroo fight crime in the outback



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





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-  2.3K Chicago cop's daughter rammed to death by car
-  2K Slain Phoenix cop's family, colleagues visit Oval Office for Police Week

BRANDFOCUS

Capture, manage and share multimedia with Motorola Solutions Digital Evidence Management Solution



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TOP NEWS



**NJ cop killed in multi-car crash
on way to work**

- **Va. special agent fatally shot
by convicted felon:** Special Agent Michael T. Walter was a father of three and former Marine
- **Video: Felon attacks cop,
tries to grab service weapon
during stop:** At one point, the officer's radio became disconnected
- **Australian constable fatally
shot by felon during traffic
stop:** Senior Constable Brett



**Officer who
fatally shot
Tamir Rice fired**

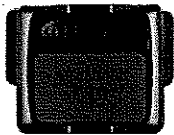


**Sheriff: Miss.
shooting
suspect dodged
officers by
swapping cars**

Forte's death is the first LODD of the year in Australia

- **W.Va. officer killed, 3 injured after multi-vehicle pursuit crash**
- **Maine officer critical after attempted river rescue**
- **Video: Undercover buy that erupted in gunfire leads to policy changes**
- **Off-duty Texas deputy constable killed in crash**
- **Police release 911 audio, video of fatal DC standoff**
- **Man allegedly set up fake LE memorial non-profit**

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sustainable and ongoing body-worn camera program by combining the easiest to operate body-worn camera with Microsoft Azure.

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Beyond Rolling Stolen: 4 Ways to Develop Investigative Leads Using LPR Data



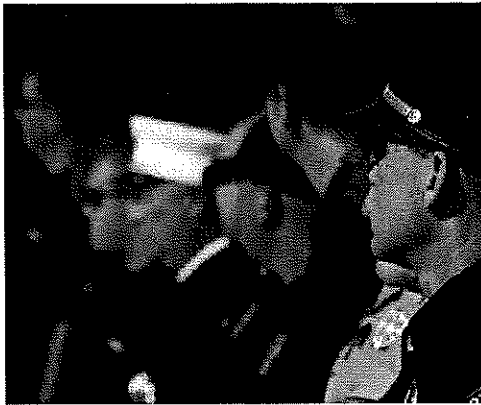
License plate reader data can reveal patterns that provide actionable

intelligence for investigators.

🔗 [Read more here](#)

POLICE COMMUNICATIONS

Collaboration is key to preparing for public safety missions



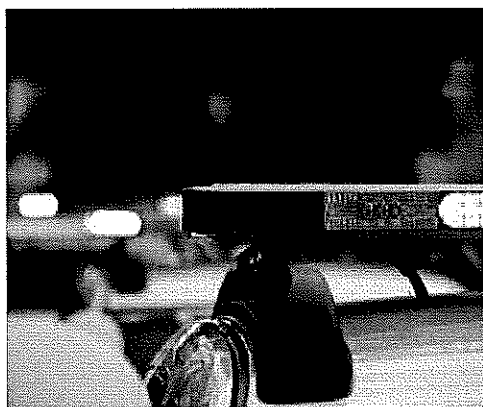
By Greg Benson and Mike Fagel, P1 Contributors

Interagency planning, training and exercises are critical components of response actions.

[Interagency involvement >](#)

POLICE TECHNOLOGY

Facial recognition technology and a 'reasonable expectation of privacy'



By Val Van Brocklin, PoliceOne Columnist

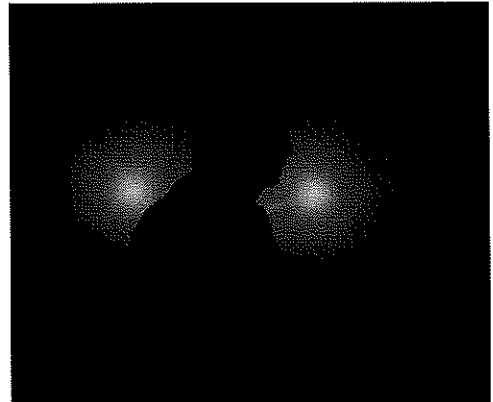
Law enforcement might consider using discretion before a court decides whether police need a warrant to scan someone's face.

[Plan and consider >](#)

EMERGING TECHNOLOGIES

OFFICER SAFETY

Slow the game down: How to become an expert in LE



By Jonathan Page, PoliceOne Columnist
Once skills are automated and schemas are activated, a large portion of information processing is taken care of in the subconscious brain.

[Applying expertise to policing >](#)

P1 EXCLUSIVE

Why handheld narcotics analyzers are worth the investment



By Julie Planchet, PoliceOne Contributor
These devices prioritize crime lab workloads and dramatically cut drug testing costs.

[Reducing crime lab backlogs >](#)

Roundtable: Police tech experts gaze into the crystal ball



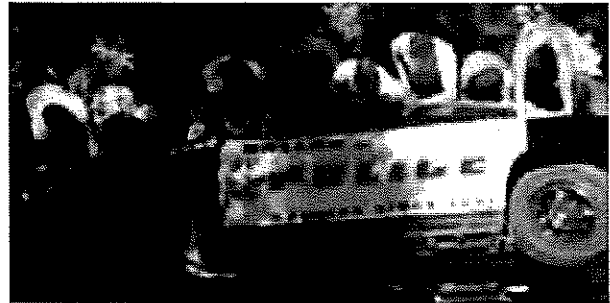
By PoliceOne Staff

Four experts on the frontline of law enforcement technology tell us what to expect 15 years out.

[Prepare for the future >](#)

MORE ON POLICEONE

Video: Passers-by rush into Dallas creek bed to aid cop



Texas police save the day after no one shows up to boy's birthday party







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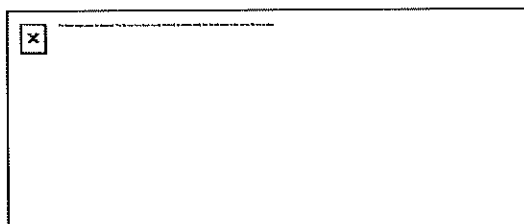
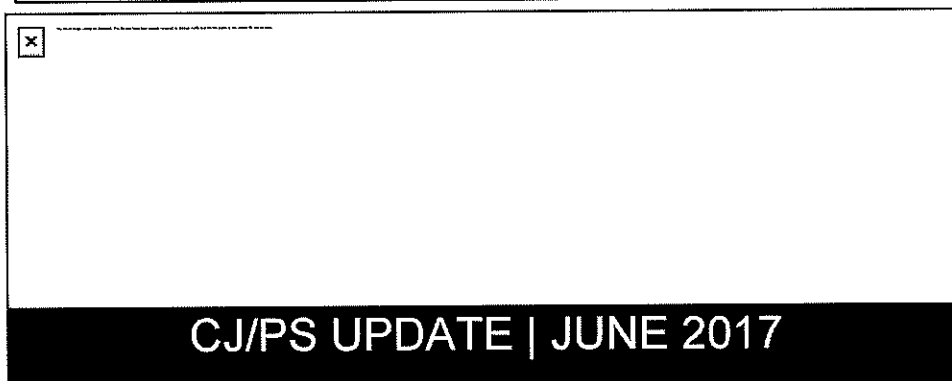
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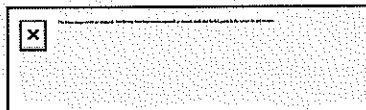


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- Emergency officials examining county's weather siren system
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- Rapid DNA Technology Makes Verifying Relationships Easier, Faster
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- Prince William Co. Police to Start Wearing Body Cameras
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The Drawing Board: Here are some of the newly discovered IT initiatives being planned in agencies nationwide:

Status: INITIATIVE

The **Orange County District Attorney's Office** will acquire a **Records Management System**. The system should have mobile or wireless capabilities to replace the manual tracking of case/untl information within the District Attorney Bureau of Investigation (**Esitmated Cost: \$250K-\$500K**).....[Click for opportunity details.](#)

Status: PRE-RFP WATCH LIST

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Agency	Project	Status	Released	Due
Lexington-Fayette County Community Corrections	Security System	RFP	06/16/2017	07/20/2017

Marion County Sheriff's Department	<u>Jail Management System</u>	RFP	06/16/2017	08/04/2017
Providence Police Department	<u>False Alarm Management System</u>	RFP	06/14/2017	07/10/2017
Delaware County Board of Commissioners	<u>Audio Visual and Digital Court Reporting System</u>	ITB	06/14/2017	06/27/2017
Milwaukee County House of Correction	<u>Offender Electronic Monitoring Services</u>	RFP	06/12/2017	07/21/2017

FUNDING NEWS

County seeking higher wireless surcharge for 911 Center revenues

New emergency radio tower planned in Duanesburg

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Third time's the charm for Green: City receives \$529,920 federal grant for emergency radio equipment after first 2 requests denied

Georgetown Fire, Police to share technology

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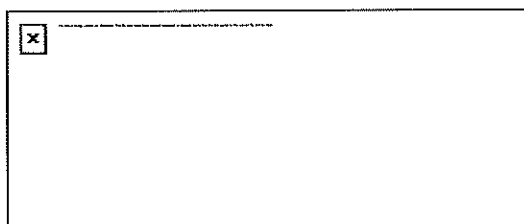
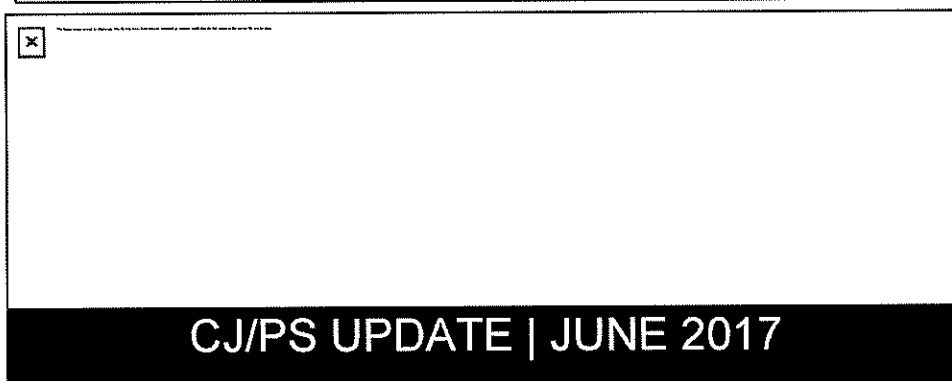
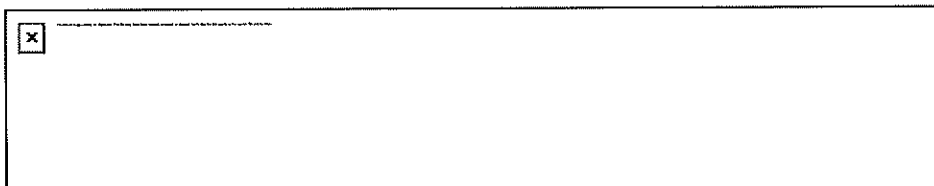
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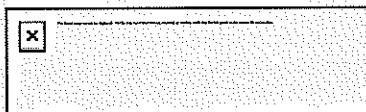
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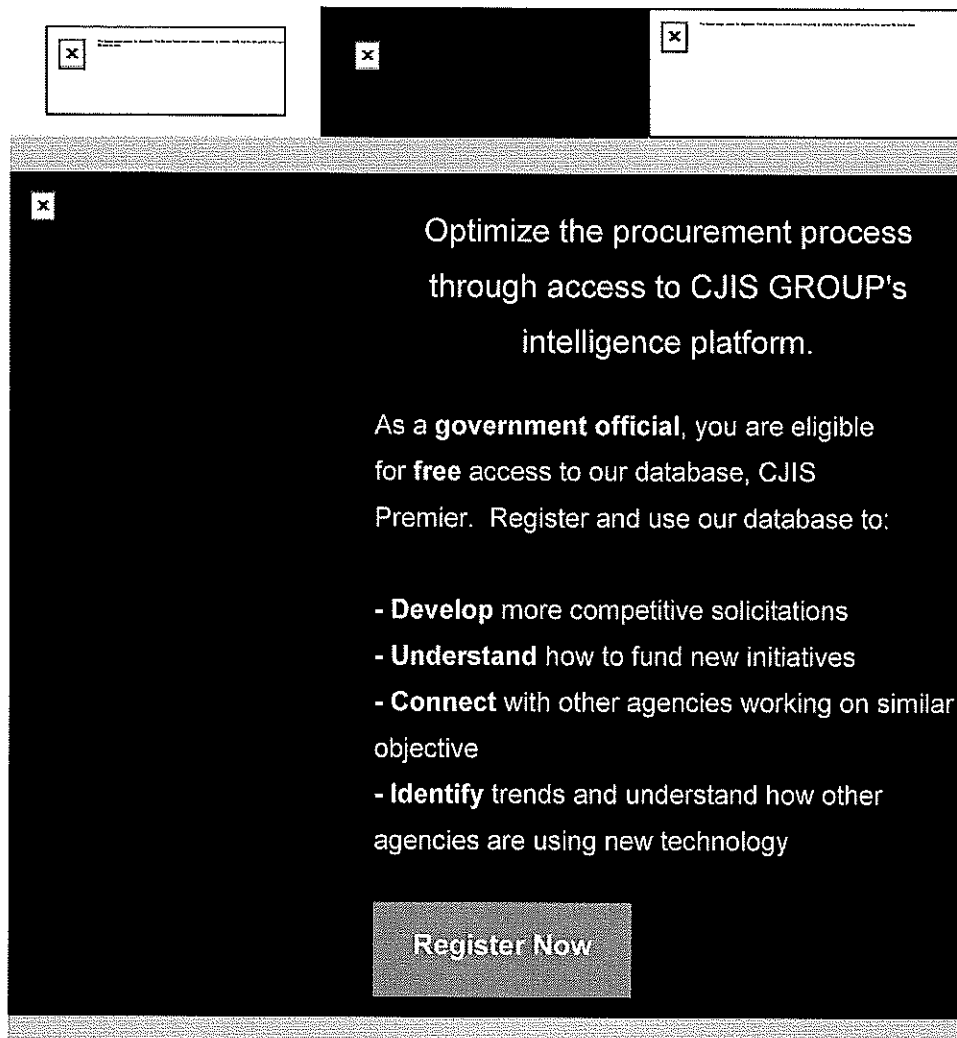
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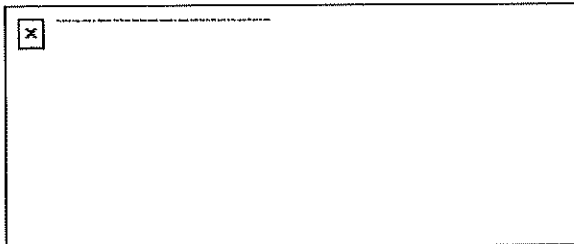
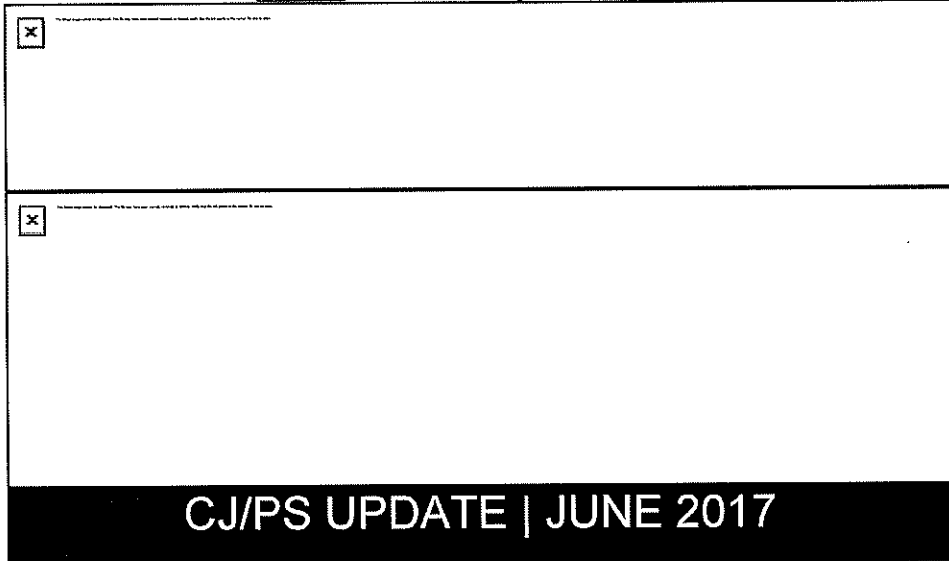
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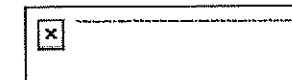
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Developing Opportunities

The Drawing Board: Here are some of the newly discovered IT initiatives being planned in agencies nationwide:

Status: INITIATIVE

The **Orange County District Attorney's Office** will acquire a **Records Management System**. The system should have mobile or wireless capabilities

to replace the manual tracking of case/unti information within the District Attorney Bureau of Investigation (**Esitimated Cost: \$250K-\$500K**).....[Click for opportunity details.](#)

Status: PRE-RFP WATCH LIST

The **Chicago Office of Emergency Management and Communications** will acquire a **Next Generation Computer Aided Dispatch (CAD)** which will be used for dispatching assistance in response to 911 calls. The CAD effort will include the installation, delivery, maintenance and consulting services necessary for the full implementation of the system (Estimated Cost: \$10M-\$25M).....[Click for opportunity details.](#)

Status: INITIATIVE

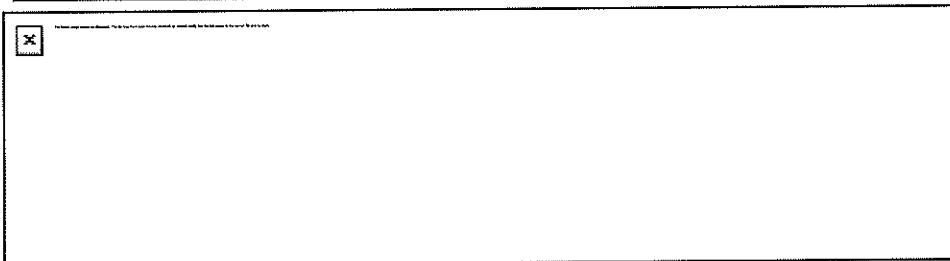
The **Fredericksburg Police Department** has identified the need for **Body Cameras**. The value of the camera technology to increase officer safety through the documentation of evidence concerning observed criminal activity and assaults against police officers is incalculable (**Estimated Cost: \$250k-\$500k**).....[Click for opportunity details.](#)

Status: PRE-RFP

The **Hamilton County Sheriff's Office** is preparing to acquire a **Records Management System (RMS) and Jail Management System**. The vision of the Hamilton County Sheriff's Office is to implement an agency wide system that will provide storage, retrieval, and management, archiving, and mapping capability as well as viewing of information, records, documents, and files pertaining to the daily operation of the Sheriff's Office.....[Click for opportunity details.](#)

Not enough time to respond to RFP's?

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The Deadline

Time is limited on these open solicitations!

Agency	Project	Status	Released	Due
Lexington-Fayette County Community Corrections	<u>Security System</u>	RFP	06/16/2017	07/20/2017
Marion County Sheriff's Department	<u>Jail Management System</u>	RFP	06/16/2017	08/04/2017
Providence Police Department	<u>False Alarm Management System</u>	RFP	06/14/2017	07/10/2017
Delaware County Board of Commissioners	<u>Audio Visual and Digital Court Reporting System</u>	ITB	06/14/2017	06/27/2017
Milwaukee County House of Correction	<u>Offender Electronic Monitoring Services</u>	RFP	06/12/2017	07/21/2017

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County seeking higher wireless surcharge for 911 Center revenues

New emergency radio tower planned in Duanesburg

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Stone, Andrea

From: ISS World America <issworld@telestrategies.net>
Sent: Tuesday, July 11, 2017 10:55 AM
To: jbarbieri@springfieldpolice.net
Subject: Invitation to North America's Most Advanced DarkNet/Social Media Monitoring and OSINT Automation Training Conference

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September 11-13, 2017
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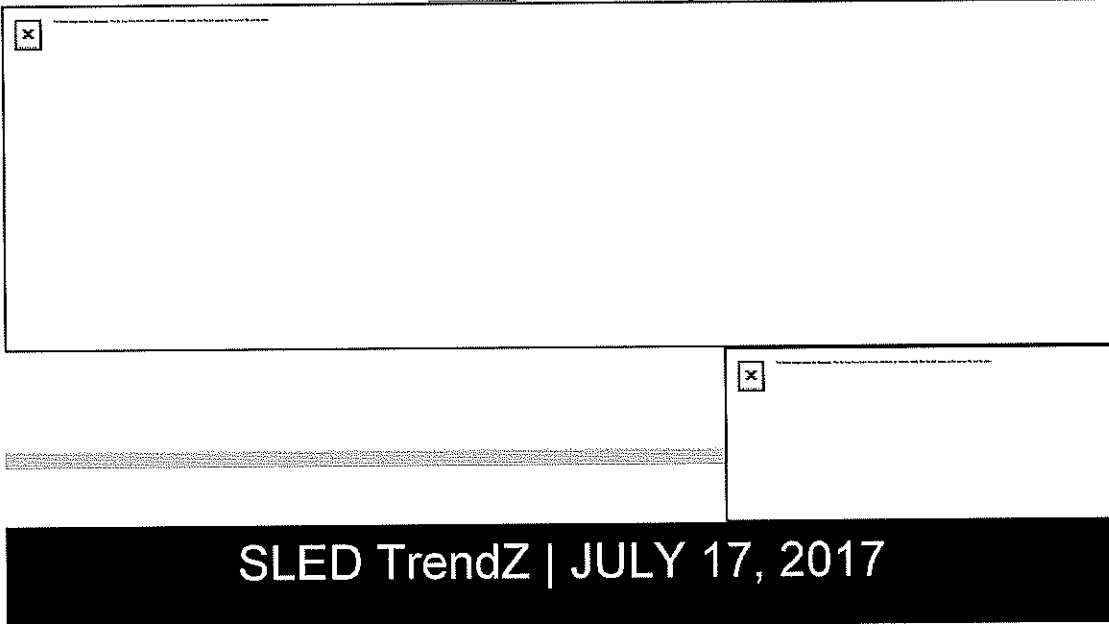
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- [States Explore Their Options as FirstNet Plans Emerge](#)
- [Telecom Alert: June 26, 2017 - Robocall NOI; FCC Budget Hearing; FirstNet Update; Petition for Rulemaking in 3700-4200 MHz Band;](#)
- [MythBusters: A FirstNet edition](#)
- [Rivada Networks Receives Top Score in Michigan FirstNet Alternative State-Plan RFP](#)

fire agencies get grants

- State grant funds new voting machines in Richmond

- Some may be kept in dark on future of public safety telecom

[Click Here To View Developing Opportunities](#)

Developing Opportunities

Here are some of the newly discovered IT initiatives being planned in agencies nationwide:

Status: INITIATIVE

The **Milwaukee County Department of Administrative Services, Information Management Services Division** has identified the need for **Information Technology Security**. An Information Security Management Program will be developed in 2017 in order to mitigate security threats and to reinforce IMSD efforts to protect.....(**Estimated Cost: \$1M- \$2M**) [Click for opportunity details](#) _

Status: PRE-RFP WATCH LIST

The **Miami-Dade Police Department** will acquire a **Law Records Management System** which will provide a single and comprehensive operational policing system to manage Incident Crime information.(**Estimated Cost: \$10M - \$25M**) [Click for opportunity details](#) _

Status: INITIATIVE

The **Alabama Medicaid Agency** will acquire new **MMIS Enhancements and Fiscal Agent Services**. The MMIS will be a central component of efforts to support Medicaid providers in participating in the Medicaid EHR incentive program, and ultimately achieving meaningful use.....(**Estimated Cost: \$75M - \$125M**) [Click for opportunity details](#)

Status: PRE-RFP

The **Florida Department of Highway Safety and Motor Vehicles** is exploring options for acquiring an **In-Car Video and Enterprise Digital Video Management Solution** for use by the Florida Highway Patrol (FHP).....(**Estimated Cost: \$2M-\$5M**) [Click for opportunity details](#)

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NEWS & VIEWS

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- [CPD squad cars with new crime-fighting technology hit streets](#)
- [Tyler Technologies to Provide Public Safety Solution to Lehigh and Northampton Counties, Pennsylvania](#)
- [Keeping crime rates down in Marianna](#)
- [Policing through Technology: Fishers makes 10 arrests through CrimeWatch app, celebrates first year](#)
- [Jeannette police might join growing number of departments using drones](#)
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Application

Deadline: 09/30/2017

[Computing and Communication Foundations \(CCF\): Core Programs](#)

Application

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[Information and Intelligent Systems \(IIS\): Core Programs](#)

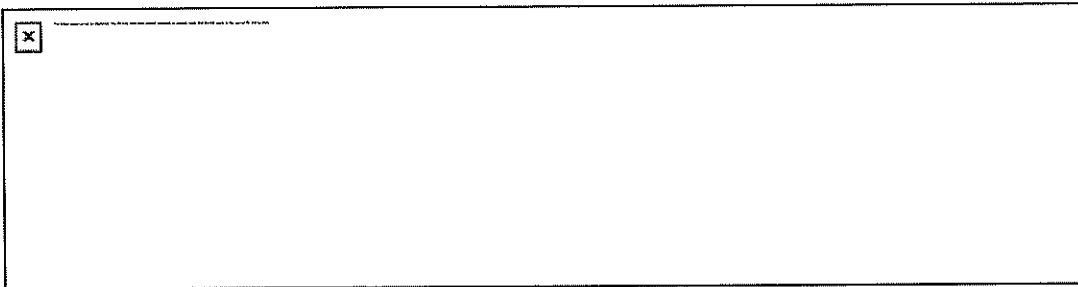
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Application

Deadline: 09/20/2017



OPEN SOLICITATIONS

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Agency	Project	Status	Release Date	Due Date
Idaho Department of Fish and Game	<u>Cameras and Accessories, Aerial Photograph</u>	RFQ	07/12/2017	07/19/2017
Texas A&M University	<u>Real Time PCR System</u>	IFB	07/12/2017	07/26/2017
New York City Fire Department	<u>Contractor Services for the Fire Department Technology Support Center</u>	RFP	07/13/2017	08/17/2017
East Islip Union Free School District	<u>Chromebook Acquisitions</u>	IFB	07/14/2017	07/26/2017
Ingham County Innovation and Technology Department	<u>Website Redesign and Content Management System</u>	RFP	07/13/2017	08/10/2017

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WSU developing innovative technology to improve policing, public safety

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Vigilant Solutions' license plate recognition data and analytics now available for public records investigation platform subscribers

Hall County Implements New 9-1-1 Dispatch Technology to Deliver Better Emergency Response

Data Integration: Breaking Data Silos and Turning "My Data" into "Our Data"

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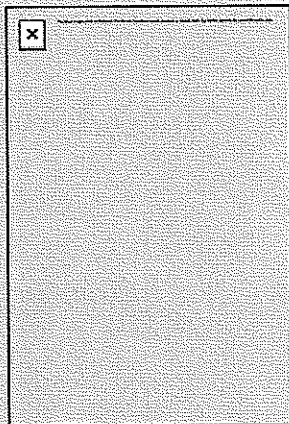
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From: Public Policy Law360 <news-q@law360.com>
Sent: Thursday, July 20, 2017 4:34 AM
To: jbarbieri@springfieldpolice.net
Subject: High Court Nixes Bid To Include Grandparents In Travel Ban



Thursday, July 20, 2017



TOP NEWS

High Court Nixes Bid To Include Grandparents In Travel Ban

The U.S. Supreme Court on Wednesday denied the government's bid to include grandparents and other relatives in its travel ban, dealing a setback to the Trump administration on its travel restriction policy. [Read more »](#)

Trump: If He'd Known Of Recusal, Sessions Wouldn't Be AG

President Donald Trump said he wouldn't have appointed Attorney General Jeff Sessions if he'd known that Sessions would recuse himself from overseeing the investigation into possible collusion between Trump's campaign and Russia meddling in the election, according to a New York Times interview published Wednesday. [Read more »](#)

Trump To Nominate Hester Peirce As SEC Commissioner

The Trump administration is nominating Hester M. Peirce to the U.S. Securities and Exchange Commission, nearly two years after the research fellow and former Senate aide was first tapped for the vacant Republican seat, the administration announced Tuesday. [Read more »](#)

Clean ACA Repeal Means 32M Uninsured, CBO Says

Repealing the Affordable Care Act's funding and individual mandate without passing a replacement plan would eventually lead to 32 million more uninsured Americans and cause premiums to double, the Congressional Budget Office reported Wednesday. [Read more »](#)

Voter Fraud Panel Needn't Give Public Access, Judge Says

A Washington, D.C., federal judge on Tuesday ruled that the Presidential Advisory Commission on Election Integrity, which



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Fried Frank
GeyerGorey LLP
Greenbaum Rowe
Hodgson Russ
Hogan Lovells
Hudson Cook
Jeeves Law
Joseph & Kirschenbaum
Kasowitz Benson
Kobre & Kim

was established to investigate voter fraud, does not have to allow public access to its first meeting, denying a request from a legal civil rights nonprofit that argued attendance by members of the public would increase transparency. [Read more »](#)

House Votes To Give FERC More Sway In Pipeline Approvals

House Republicans passed a measure Wednesday aimed at paring down interagency spats over new pipeline approvals, largely putting decisions in the hands of the Federal Energy Regulatory Commission. [Read more »](#)

Sessions Brings Back Adoptive Forfeiture With Some Tweaks

U.S. Attorney General Jeff Sessions revived a program on Wednesday that allows state and local law enforcement authorities to borrow federal authority to forfeit seized assets whenever the underlying conduct also violates federal law. [Read more »](#)

BANKING & SECURITIES

Trump Banking Noms To Get Senate Hearing Next Week

The Senate banking committee on Wednesday said it would hold confirmation hearings next week for nominees to fill two key bank regulatory positions and hasten the pace of the Trump administration's planned rollback of bank rules. [Read more »](#)

Acting OCC Chief Backs Fintech Charter Efforts

The acting head of a key U.S. bank regulator backed his predecessor's efforts to establish special national banking charters for so-called fintech firms on Wednesday, keeping alive a fight with state regulators who have opposed the move. [Read more »](#)

ENERGY & ENVIRONMENTAL

Reps. OK Bill To Cut White House Out Of Pipeline Permits

International pipeline projects like the Keystone XL could have a more standardized review process that doesn't involve the White House if a bill the House of Representatives passed Wednesday becomes law, backers said. [Read more »](#)

Dems Ask EPA To Extend Comments On Clean Water Rule

A group of 22 Senate Democrats is calling on the Trump administration to give the public more commenting time on its proposal to rescind an Obama-era rule defining the federal government's permitting jurisdiction under the Clean Water Act, saying the stakes are too high for a rush job. [Read more »](#)

HEALTH & LIFE SCIENCES

Kozacky Weitzel
Lankler Siffert
Lawyers' Committee for Civil Rights
Lipsitz Green
Littler Mendelson
McDermott Will
Norton Rose Fulbright
O'Connell & Aronowitz
Outten & Golden
Quinn Emanuel
Schertler & Onorato
Schulte Roth
Steptoe & Johnson LLP
Stoel Rives
Sullivan & Cromwell
Susman Godfrey
Walden Macht
White & Case
Wiley Rein
WilmerHale
de la Parte & Gilbert

COMPANIES

American Bar Association
American Civil Liberties Union
American Wind Energy Association
Apple Inc.
Bank of America Corporation
Carlyle Group LP
Caterpillar Inc.
Citigroup Inc.
Communications Workers of America
Competitive Power Ventures Holdings LLC
Conference of State Bank Supervisors
Cynosure Inc.
Electronic Privacy Information Center
Exelon Corporation
Facebook
JPMorgan Chase & Co.
Lattice Semiconductor

Fla. Health Dept. Urges High Court To Deny Records Fee Case

The Florida Board of Medicine told the state Supreme Court on Tuesday it should reject a case challenging a rule it adopted allowing physicians to charge more for copies of patient records, saying there is no conflict in the case law to justify the high court's review. [Read more »](#)

Menendez Urges Court To Nix Charges Based On McDonnell

Sen. Bob Menendez called on a New Jersey federal court Tuesday to toss his corruption charges, arguing that the allegations fall short of the narrow definition of "official acts" set by the U.S. Supreme Court's landmark McDonnell decision, less than a week after the conviction of ex-New York Assembly Speaker Sheldon Silver was thrown out based on the high court ruling. [Read more »](#)

TRANSPORTATION & INFRASTRUCTURE

House Subcommittee OKs Self-Driving Vehicle Legislation

A U.S. House subcommittee on Wednesday approved proposed legislation that would federally regulate self-driving vehicles, a bipartisan effort that legislators on both sides of the aisle said was driven by a desire to improve safety on the nation's roadways. [Read more »](#)

REAL ESTATE

Ill. Village Can't Dodge Feds' Racial Bias Housing Suit

The south suburban Chicago village of Tinley Park cannot escape a U.S. Department of Justice lawsuit over the town's alleged racial bias in halting a low-income housing development, an Illinois federal judge has ruled. [Read more »](#)

EMPLOYMENT

Senate Labor Committee Advances NLRB Nominees

Republicans on the Senate Health, Education, Labor and Pensions Committee on Wednesday signed off on the Trump administration's nominees to fill the two vacancies on the National Labor Relations Board, sending them to a vote in the full Senate, over objections from some committee Democrats. [Read more »](#)

PRIVACY & CYBERSECURITY

Tech Industry GCs Share Tips On Curbing 'Bro Culture'

General counsels for Uber, Twitter and Oracle spoke at the Ninth Circuit's judicial conference in San Francisco on

Corporation

Lawyers' Committee for Civil Rights Under Law

London Court of International Arbitration

National Employment Lawyers Association

New York Times Co.

OneWest Bank Group LLC

Oracle Corp.

Pfizer Inc.

RPX Corp.

Samsung Electronics Co. Ltd.

School of Rock LLC

Talen Energy Corp.

Tax Foundation

The Boeing Company

TransCanada Corporation

Twitter Inc.

U.S. Bancorp

U.S. Chamber of Commerce

Uber Technologies Inc.

United States Council for International Business

Verizon Communications

Wells Fargo & Co.

GOVERNMENT AGENCIES

Army Corps of Engineers
Bureau of Citizenship and Immigration Services

Congressional Budget Office

Consumer Financial Protection Bureau

Department of Commerce

European Union

Executive Office of the President

Federal Bureau of Investigation

Federal Communications Commission

Federal Emergency Management Agency

Federal Energy Regulatory

Wednesday about curbing “bro culture” at multinational tech companies and in the courtroom, sharing advice on how legal departments, law firms and judges can combat bias in the male-dominated tech industry. [Read more »](#)

Vt. DMV's Use Of Biometric Tech Violated State Law, AG Says

The Vermont Department of Motor Vehicles shouldn't go back to using facial-recognition technology in its effort to stop individuals from securing multiple licenses unless legislation allowing the practice is passed, the state attorney general said Tuesday, explaining that the program isn't compliant with state law. [Read more »](#)

GOVERNMENT CONTRACTS

Judge Splits Albany Corruption Case, Trials Set For 2018

A sprawling corruption case involving two former aides to New York Gov. Andrew Cuomo and hundreds of millions of dollars of rigged contracts was split in two by a federal judge in Manhattan on Tuesday, with trials set to begin in January and May. [Read more »](#)

AEROSPACE & DEFENSE

Army Reservists Seeking Citizenship Ordered To Tweak Suit

A courtroom battle over the Pentagon's move to stall naturalization proceedings for noncitizen Army reservists ended in a stalemate Wednesday as a D.C. federal judge ordered the reservists to refile their lawsuit with additional legal arguments, but not before ripping the government for a “baffling” series of policy changes. [Read more »](#)

INTERNATIONAL TRADE

US Will Host First Round Of NAFTA Talks Next Month

The effort to renegotiate the North American Free Trade Agreement will begin in earnest on Aug. 16 with an opening round of talks in Washington, D.C., the Office of the U.S. Trade Representative announced Wednesday. [Read more »](#)

Enforcement Hawks Back Stiff Steel, Aluminum Curbs

A group of trade enforcement advocates on Tuesday urged the Trump administration to hold firm and pursue formidable import restrictions in its national security probes of foreign steel and aluminum, telling the White House to ignore “vague speculation about trade retaliation” from opponents. [Read more »](#)

TAX

CPA Group Rattles Off Tax Reform Ideas To Senate

Commission

Federal Reserve System

Federal Trade Commission

Internal Revenue Service

International Monetary Fund

NAFTA

National Highway Traffic

Safety Administration

National Labor Relations
Board

New Jersey Board of Public
Utilities

New York Power Authority

New York State Department
of Financial Services

Occupational Safety and
Health Review Commission

Office of the Comptroller of
the Currency

Office of the U.S. Trade
Representative

Securities and Exchange
Commission

Solicitors Regulation
Authority

U.S. Attorney's Office

U.S. Department of
Homeland Security

U.S. Department of Justice

U.S. Department of Labor

U.S. Department of State

U.S. Environmental
Protection Agency

U.S. Senate

U.S. Sentencing
Commission

U.S. Supreme Court

World Trade Organization

The American Institute of CPAs has sketched out its vision for comprehensive tax reform in a series of letters to the Senate Finance Committee chairman on Tuesday, supporting relief for small businesses and individuals while pushing back against efforts to close certain deductions. [Read more »](#)

GOP Lawmakers Demand IRS Briefing On Record Preservation

Three Republican lawmakers are demanding a report from IRS Commissioner John Koskinen on the agency's record-keeping practices after a recent audit spotlighted an outdated email system and inadequate storage policies. [Read more »](#)

Think Tank Rebuts Koch Group's Hostility To Full Expensing

The Tax Foundation, a conservative-leaning think tank, railed against opposition from a political advocacy group funded by the Koch brothers to a tax-reform proposal to allow the full expensing of capital investments, saying Tuesday that the proposal will boost after-tax incomes and have a positive effect on the economy. [Read more »](#)

IMMIGRATION

Sens. Graham, Durbin To Lead Bipartisan Dream Act Revival

Sens. Lindsey Graham, R-S.C., and Dick Durbin, D-Ill., announced Wednesday that they will soon unveil a bipartisan revival of the Dream Act that would allow certain young undocumented immigrants to attain lawful permanent U.S. residence and a path to citizenship. [Read more »](#)

TELECOMMUNICATIONS

Pai Pledges To Keep Trump Influence Out Of FCC Proceedings

Federal Communications Commission Chairman Ajit Pai told the Senate Committee on Commerce, Science, and Transportation on Wednesday that he would not be willing to help President Donald Trump crack down on the media outlets he so often disparages. [Read more »](#)

EXPERT ANALYSIS

A Chat With FTC's Thomas Pahl

Recently, I joined a "fireside chat" with Thomas Pahl, acting director of the Federal Trade Commission's Bureau of Consumer Protection. He discussed the FTC's consumer protection priorities and its initiative to reform the agency's investigative process, says Lucy Morris of Hudson Cook LLC. [Read more »](#)

Sherman Act Is An Unconstitutional Criminal Statute: Part 2

What passed constitutional muster when the Sherman Act was

a misdemeanor merits another look now that the statute carries a maximum jail time of 10 years. I have a proposal to fix the criminal element of the Sherman Act, says Robert Connolly of GeyerGorey LLP. [Read more »](#)

How Industry Is Responding To FERC On State Policies

In May, the Federal Energy Regulatory Commission held a conference focused on the interplay between state policy goals and the organized energy markets in the eastern U.S. The subsequent comments from more than 70 interested parties reflect a basic lack of consensus among industry participants on the best approach going forward, say attorneys with Bracewell LLP. [Read more »](#)

The CFIUS Calculus Has Changed — In More Ways Than One

Recent unwritten changes to the Committee on Foreign Investment in the United States, made in the name of national security, may undermine the committee's original purpose, says Stephen Heifetz, a partner with Steptoe & Johnson LLP who previously served as the Department of Homeland Security's CFIUS representative. [Read more »](#)

Looking Ahead For The National Flood Insurance Program

The Federal Emergency Management Agency's National Flood Insurance Program will expire if not reauthorized before Sept. 30, 2017, which would have immediate and long-term repercussions for property owners. There is a need to reauthorize the NFIP and improve it in order to align values of a national safety net and self-reliance on both a personal and local community level, says Michelle Rudd of Stoel Rives LLP. [Read more »](#)

Weekly Column

Innovating For Wise Juries: Matching Experts

In the penultimate installment of this series, Stephen Susman, Richard Lorren Jolly and Dr. Roy Futterman of the NYU School of Law Civil Jury Project answer a question on many legal analysts' minds: What if both sides' expert witnesses sat in a hot tub discussing the case while a jury watched? [Read more »](#)

LEGAL INDUSTRY

The 2017 Rising Stars, By Firm

Law360's Rising Stars recognizes attorneys under 40 who have demonstrated outstanding career accomplishments. This year, Gibson Dunn & Crutcher LLP and Kirkland & Ellis LLP led the pack with eight Rising Stars each, followed by Latham & Watkins LLP, Mayer Brown LLP and Quinn Emanuel Urquhart & Sullivan LLP, which had six apiece. Weil Gotshal & Manges LLP rounded out the group with five Rising Stars. [Read more »](#)

2 Ways To Combat Law's Gender Inequality Problem

A Seattle University law professor on Tuesday offered up her thoughts on combating gender inequality in the legal profession, which include confronting and changing sexism on a societal level and making structural changes at law firms. [Read more »](#)

Ex-Quinn Worker Claims Racism Behind Scenes Of Apple Trial

Quinn Emanuel Urquhart & Sullivan LLP protected a supervisor who openly made "horrific" discriminatory comments to at least three African-American employees during the 2014 patent trial in Apple v. Samsung, according to a suit in New York federal court Wednesday. [Read more »](#)

White & Case, Partner Fined £300K For Acting 'Recklessly'

The U.K. Solicitors Regulation Authority fined White & Case LLP and one of its partners, who specializes in international arbitration, a combined £300,000 (\$390,720) for having "acted recklessly" by not taking the necessary steps to ensure client confidentiality and prevent conflicts of interest, according to a notice published Wednesday by the SRA. [Read more »](#)

Congresswoman's Atty Pleads Not Guilty In Nude Pics Case

A former counsel to Rep. Stacey Plaskett, the Democratic delegate from the U.S. Virgin Islands, pled not guilty on Tuesday to allegations that he leaked nude photos and videos stolen off of Plaskett's iPhone. [Read more »](#)

Plaintiffs Bar Perspective: Outten & Golden's Wayne Outten

Employees come to me with a wide range of workplace problems. Some of those problems can be addressed using legal tools, such as litigation. But such tools, while important and necessary, often are insufficient or ineffective to address employment problems, says Wayne Outten of Outten & Golden LLP. [Read more »](#)

JOBS

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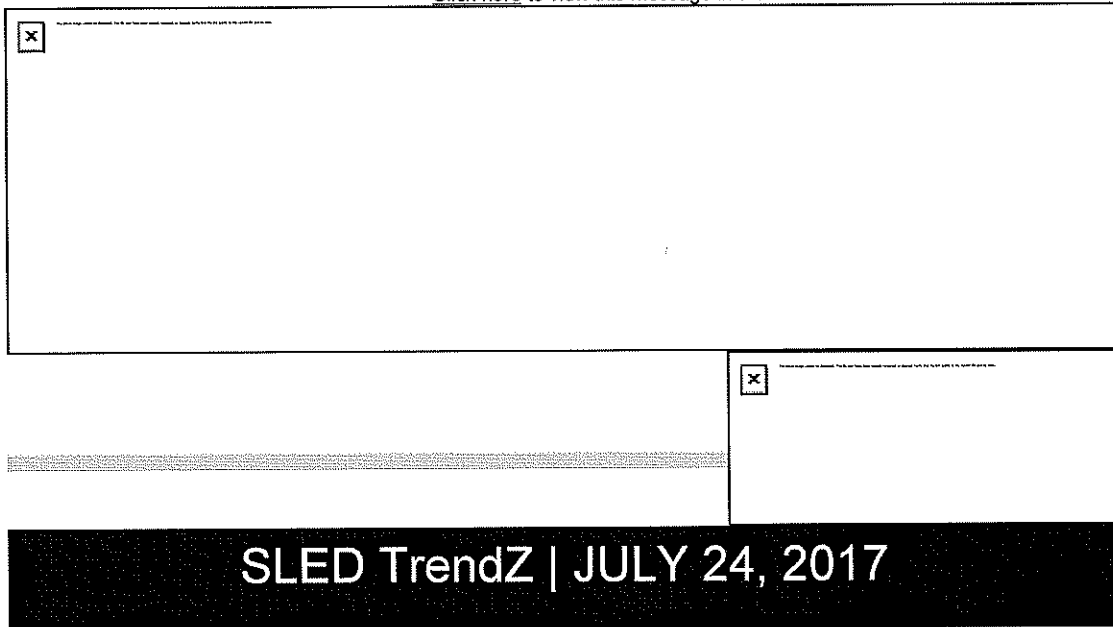
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SLED TrendZ | JULY 24, 2017

Funding News

- [States Work to Finalize Fiscal 2018 Budgets](#)
 - [Homeland Security To Provide Firefighters With New Pagers](#)
 - [County approves \\$1.1M to buy body-worn cameras for sheriff's deputies](#)
 - [County tightening rules for getting public records](#)
 - [Healthcare Tech Sector Sets All-Time Funding Record: Mercom Capital Group](#)
 - [With strong state funding, Philadelphia catapults into next generation 911](#)
- 
- [Iowa becomes fifth state to announce FirstNet 'opt-in' decision](#)
 - [Virginia becomes first state to opt in to FirstNet](#)
 - [Wyoming to Transform Communications for Public Safety; Governor Mead to Approve Buildout Plan for First](#)

- Paulding budget plan proposes more than \$4 million for new equipment, workers
- Mayor Curry rolls out stimulus budget: 100 new cops, \$131 million for infrastructure

- Responder Network
- NIST Awards \$38.5 Million to Accelerate Public Safety Communications Technologies

[Click Here To View Developing Opportunities](#)

Developing Opportunities

Here are some of the newly discovered IT initiatives being planned in agencies nationwide:

Status: INITIATIVE

The **Delaware Department of Transportation, Division of Motor Vehicles**, will acquire a **Motor Vehicle and License System (MVALS) Modernization**. The DMV must modernize the existing Motor Vehicle and Licensing System (MVALS) in order to eliminate dependence on antiquated technologies and limited technical resources to support DMV operations.....(**Estimated Cost: \$5M- \$10M**) [Click for opportunity details](#) _

Status: PRE-RFP

The **Minneapolis Information Technology Department** will acquire a **City Web Site and Content Management System Replacement**. The Business Information Services Department. The replacement should allow the Department to incorporate American with Disabilities Act (ADA) compliance, support multiple languages translations and institute automated records retention.....(**Estimated Cost: \$1M - \$2M**) [Click for opportunity details](#)

Status: PRE-RFP

Seattle City Light is planning to acquire a **Demand Side Management Program and Tracking System**. Seattle City Light seeks to identify and implement an energy Demand Side Management Program & Tracking system to assist in managing customer and program information, store documents, expedite business workflow and implement tracking and reporting tools.....(**Estimated Cost: \$750K-\$1M**). [Click for opportunity details](#)

Status: INITIATIVE

The **San Francisco Office of the Controller** will complete an **Enterprise Resource Planning Systems Initiative**. The City's mainframe-based central financial and accounting information system (FAMIS), which is used by all departments, is more than twenty-five years old and is in need of replacement.....(**Estimated Cost: \$25M-\$75M**) [Click for opportunity details](#)

Want more info? Click below to read more about these opportunities or find new ones!

Beat the Deadline

NEWS & VIEWS

- [Tyler Technologies to Provide Enterprise Resource Planning Solution to Clearwater, Florida](#)
- [Richmond public transit partners with local tech company to put elderly, disabled riders on Uber and Lyft](#)
- [Imagine Boston 2030 presents a guidepost for data-driven planning](#)
- [Proposal for red-light cameras draws wide views](#)
- [Colorado Selects Free & Fair to Develop Software Tools for First Statewide Implementation of Risk-Limiting Post-Election Audits](#)
- [Police cameras, drones up for discussion next week](#)
- [Could Health Tech Become Indiana](#)

Grant Guidelines

[Rural Broadband Access Loans and Loan Guarantees Program](#)

Application

Deadline: 09/30/2017

[Computing and Communication Foundations \(CCF\): Core Programs](#)

Application

Deadline: 09/20/2017

[Information and Intelligent Systems \(IIS\): Core Programs](#)

Application

Deadline: 09/20/2017

[Computer and](#)

Calling Card?

- Utah looks to data to help serve homeless population
- Housing affordability, open data, analytics key projects for five new What Works Cities members

Network Systems
(CNS): Core
Programs

Application

Deadline: 09/20/2017

x

OPEN SOLICITATIONS

TIME IS LIMITED ON THESE OPPORTUNITIES!

Agency	Project	Status	Release Date	Due Date
Banks County EMA/E911	<u>E911 Recording System</u>	RFP	07/18/2017	08/25/2017
Maryland State Department of Education	<u>Web-Based Adaptive Assessment</u>	RFQ	07/20/2017	08/11/2017
Illinois Toll Highway Authority (THA)	<u>Fiber Optic Relocation System</u>	IFB	07/18/2017	08/15/2017
Dona Ana County Department of Fire and Emergency Services	<u>Radios and Pagers</u>	ITB	07/16/2017	08/17/2017
Vermilion County Clerk of the Circuit Court, State Attorney's Office, and Public Defender's Office	<u>Justice Case Management System</u>	RFP	07/18/2017	08/21/2017

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INDUSTRY NEWS

As facial recognition technology continues to develop, Vermont bans use at DMV

To battle hackers, IBM wants to encrypt the world

Verizon deploys critical wireless communications technology to assist Alamo Fire crews

Motorola Solutions' new AI partnership could use body cameras to find missing kids

New Splunk Research Finds Declining Confidence in Public Sector IT Operations

Lakeland Regional Health receives Most Wired designation

Bright.md raises \$8M for AI-powered remote healthcare service with 'virtual physician assistant'

Seattle startup BloomAPI helps health clinics phase out faxes

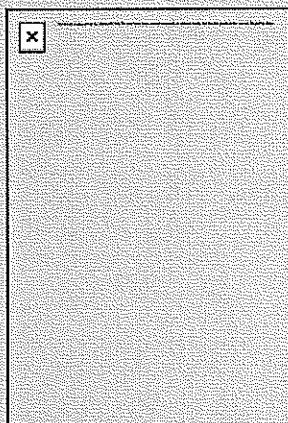
How IT Can Save Our Healthcare System

Technology plays increasing role in health care

4 steps to public-sector cloud migration

Virginia Tech Expert to Study August Eclipse for Impacts on Radar, Ham Radio, GPS

GTL- How Educating Inmates Can Stop the Revolving Door of Prisons



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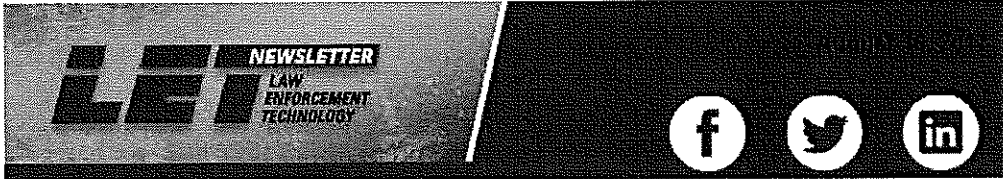
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From: Law Enforcement Technology <let@mail.officer.com>
Sent: Wednesday, August 16, 2017 5:04 PM
To: jbobianski@springfieldpolice.net
Subject: Inside the August Issue: How LEOs Stay Fit

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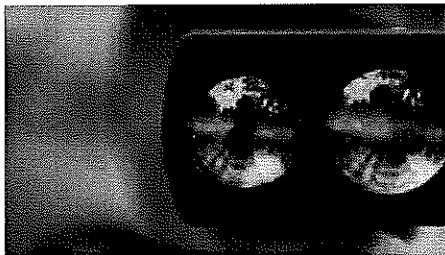
COVER STORY



Exercise Helps LEOs Stay Fit for Duty, Fit for Life

Shorter recovery time, fewer injuries and more energy are just a few noted benefits of incorporating exercise on and off duty.

IN THIS ISSUE



Tired of Being Jammed?

Police departments can benefit from anti-jamming LIDARs and jam-resistant operational strategies



How to Hire a Military Veteran as a Law Enforcement Officer

Experienced law enforcement officers are hard to come by. Consider the vet.



Enhance Your Protection

Today's body armor offerings boast more customization, comfort, lighter weight with durability and functionality



Review: Sig's P320 Handgun and Air Pistol Counterpart

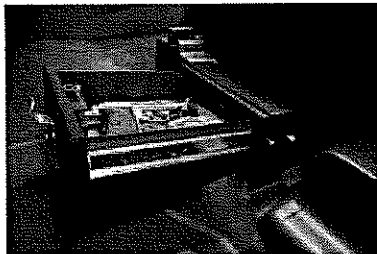
Purchase these together for a sound training program



What it Takes to Redesign Your Uniform

Collaboration and patience (to start), here are 3 tips to get the right fit

NEW PRODUCTS



Model 335 Underseat Security Drawer

By Tuffy Security Products Inc.

Tuffy Security Products offers its Model 335 Underseat Security Drawer for 2011 and newer Ford Explorer SUV as well...



CoolShield Venting Shirts

By United Tactical Gear

CoolShield is a venting, wicking shirt worn under ballistic armor. CoolShield features elongated, vertical ribs in...



Police Responder Hybrid Sedan

By Ford Motor Co.

The industry's first pursuit-rated hybrid police car, the all-new Ford Police Responder Hybrid Sedan, is part...

ON YOUR WATCH

EDITOR'S LOG



Have you Reviewed Your Shooting Policies Lately?

By Carole Moore

In 2005, a Harlem woman named Tammy Johnson was struck in the arm with a bullet fired during a police shootout that...



The Measure of Transparency

By Adrienne Zimmer

Back in June, I wrote about police

departments participating in positive social media campaigns to increase...

INDUSTRY NEWS



Major County Sheriffs of America Selects New Executive Director

Following MCSA's annual summer conference, Mr. David Weisz has been named the new Executive Director of the Major County Sheriffs of America

Veritone Launches New Division, Veritone Government, to be Led by US Government Veteran

Artificial intelligence platform arms government agencies with a future-proof solution for managing audio/video...

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...



DoubleStar Announces New Director of Edged Weapon Division

Weapon Designer

and Self-Defense Instructor Robert Cabrera to assume new role for DoubleStar's new edged weapon...



Tim Brown, President of G.T. Distributors, Elected President of NAPED BOD

During the 31st annual general meeting of the National Association of Police Equipment Distributors (NAPED) in...

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Stone, Andrea

From: Bob Schmitz <bschmitz@whitakerco.com>
Sent: Monday, August 21, 2017 10:14 AM
To: clandrau@springfieldpolice.net
Subject: Video Intelligence: Facial Recognition

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Carlos:

As you are aware, I specialize in representing advanced intelligence adapted to video surveillance, and the purpose is about gaining real-time and post-event situational awareness.

Facial Recognition has gained a lot of momentum, and I am engaged with a prominent USA company that engineers solutions exploiting facial analysis. Here are some of the areas of performance that might benefit your organization:

- Capture and Alert on People of interest
 - BlackList - Unwanted
 - WhiteList – Employees, and others of importance
- Classify people for demographics, business intelligence, marketing data
- Ingest Facial meta-data for future reference, if needed

Please allow us to educate you about what is possible with Facial Recognition, and how it might fit into your Security/Operations/Safety program.

Let me know if a teleconference/web demonstration is possible over the next couple weeks?

Thank you,

Bruce Whitaker
Owner
Whitaker Advanced Solutions, LLC
623-215-5077 Cellular
Bwhitaker@whitakerco.com
www.whitakerco.com

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Funding

News

- [USDA Invests in Rural Electric Infrastructure](#)
- [Westhampton Beach, Eastport And East Moriches Fire Departments Secure Federal Grant](#)
- [HCPD's code enforcement seeks public](#)

NEWS & VIEWS

- [Why Local Government Is Struggling To Implement Digital Technology](#)
- [Fort Smith continues conversion to new planning system](#)
- [Repeat drunken drivers to get ankle bracelets that monitor sweat for alcohol](#)
- [New technology at Mahoning Co. Jail prevents inmates from hiding drugs](#)
- [Facial recognition technology helped lead to more than 4,000 arrests since 2010, Cuomo says](#)
- [New SHPD mobile app gets positive feedback](#)
- [Johnson County \(Kan.\) Calls On Big Data to Link Public Safety and Mental Health](#)
- [County Council declares September Recovery](#)

[comment in
advance of
federal grant](#)

- [Quincy Public
Schools looking
to cut costs
without general
state aid](#)
- [Georgia EPD
gets federal grant
for water
monitoring
project](#)
- [Orlando police
and fire to ask
city for new \\$1.9
million dispatch
system](#)
- [Grant County,
Oregon, Starts
Planning Internet
Infrastructure
Project](#)
- [Voters Say
"Yes!" In Lyndon
Township,
Michigan](#)

[Month](#)

- [Waverly City Schools install new technology,
welcome new staff](#)
- [Virtual Reality technology comes to Magnolia High
School](#)
- [New online system to streamline bill-paying in
Yarmouth](#)
- [City of Berkeley CA Votes Unanimously to Enter
into Agreement with 5 Bars to Develop Marketing
Plan and Small Cell Program](#)
- [New simulator thrusts local police officers into life-
or-death scenarios](#)
- [Spearfish Police Department to purchase mobile
surveillance camera](#)
- [High tech police equipment on hunt for illegal
drivers](#)
- [Exclusive look at St. Ann Police department
technology to help cut back on police pursuits](#)
- [OIG Finds Security Weaknesses in Two More
Medicaid Programs](#)
- [Data Privacy Gets More Public](#)
- [Bring On The Ballots: Two More Colorado
Communities Face Opt Out Question](#)
- [Connectivity: Coming Up Roses Since The 90s In
Pasadena](#)

[**Click Here To View Developing Opportunities**](#)

First Net News

- [Verizon to build dedicated network core for public safety](#)
- [Verizon Steps Up Pressure on AT&T for Police, Emergency-Response
Customers](#)
- [Will FirstNet Disrupt Motorola Solutions' Cash Cow?](#)

- [Verizon Announces Dedicated Network Core for Public Safety](#)

Developing Opportunities

Here are some of the newly discovered IT initiatives being planned in agencies nationwide:

Status: INITIATIVE

The **South Carolina Department of Health and Human Services** will replace the **Medicaid Management Information System**. SCDHHS is actively engaged in a broad multi-year effort to replace its Medicaid Management Information System (MMIS).....**(Estimated Cost: \$5M-\$10M)**. [Click for opportunity details](#)

Status: PRE-RFP

The **Wyoming Planning and Community Development Department** will acquire a **Video Surveillance System** for the Wyoming City Hall. The WCH (40,551 square foot facility overall) consists of two floors and a basement mechanical area.....[Click for opportunity details](#)

Status: INITIATIVE

The **Cowlitz County 911 Center**, as lead agency for Cowlitz County, is looking to upgrade various equipment to support the **Public Safety Radio and Paging Communications System**. The Center hired a consultant (CJIS GROUP TR# 69578) to provide a comprehensive evaluation of the public safety radio/paging system, to identify gaps in the system, obtain a neutral recommendation and strategic radio system plan.....[Click for opportunity details](#)

Status: PRE-RFP WATCH LIST

The **Alameda County Sheriff's Office** will need to renew the **Inmate Commissary Services** contract for an adult inmate population in the two correctional and detention facilities, the Santa Rita Jail in Dublin, and the Glenn E. Dyer Detention Facility in Oakland.....[Click for opportunity details](#)

Want more info? Click below to read more about these opportunities or find new ones!

Beat the Deadline

INDUSTRY NEWS

[cFiveTM Announces #Catalyst4Change Award](#)

[In a high-tech world, composite sketches still helping police put a face on crime](#)

[Verizon Announces Dedicated Network Core for Public Safety](#)

[Will FirstNet Disrupt Motorola Solutions' Cash Cow?](#)

[Improve government productivity and ease access to applications by moving from device-centric to user-centric IT management](#)

[Public sector cloud spend is back, says Salesforce CEO Benioff](#)

[Cutting Costs with Software-Driven Networking](#)

[5G Regulatory Considerations Will Impact Design of 5G Networks](#)

[GTL's Education Solutions Can Break the Cycle of Recidivism](#)

[Location Detection: With Great Power Comes Great](#)

[Cambium Networks Launches Wireless Broadband Point-to-Point ePMP Bridge-in-a-Box](#)

[Planet Technologies Selected as the 2017 Microsoft State and Local Government Cloud Partner of the Year](#)

[UCLA to Adopt New Everbridge Emergency Notification System](#)

[Redline appoints channel specialist to oversee expansion in Middle East and Africa](#)

[Southeast Asia Wireless Service Provider Selects Ceragon to Modernize and Expand its Network](#)



OPEN SOLICITATIONS

TIME IS LIMITED ON THESE OPPORTUNITIES!

Agency	Project	Status	Release Date	Due Date

Paducah 911 Communication Services Department	<u>Integrated Public Safety System</u>	RFP	08/21/2017	10/20/2017
Missouri Department of Health and Senior Services	<u>Audio/Video System Equipment</u>	RFQ	08/23/2017	09/22/2017
Delaware Department of Transportation	<u>Right of Way Reporting Management System (RMS)</u>	RFP	08/22/2017	10/12/2017
University of California	<u>System Wide Information Technology Infrastructure, Wired, Wireless, Firewall, Server and Storage</u>	RFP	08/22/2017	09/27/2017
Organization for Educational Technology and Curriculum	<u>Single Sign On and Identity Access Management Solutions</u>	RFP	08/21/2017	10/02/2017

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CJIS GROUP is committed to helping you create and execute a winning strategy! ...



CREATE MESSAGES AND CONTENT THAT RESONATES WITH SLED DECISION MAKERS



CUSTOMIZE A CAMPAIGN TO MEET YOUR TIMELINE AND OBJECTIVES



GENERATE PROPRIETARY LEADS BASED ON AUDIENCE RESPONSE TO YOUR MESSAGE

Contact us directly so we can create a solution customized around your 'Go to market' needs. Click the link below to discuss how to **build a better state and local strategy.**

Custom Marketing Services

CJIS GROUP is committed to improving the technology procurement process by providing in depth, validated market intelligence and quality research for the state and local government market.

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(You can also send your request to **Customer Care** at the street address above.)

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



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



www.facefirst.com

15821 Ventura Boulevard, Suite 425

Encino, CA 91436

(818) 540-9734 (O)

(661) 478-4777 (C)

Stone, Andrea

From: NECToday News <news@nectoday.com>
Sent: Wednesday, November 15, 2017 9:55 PM
To: William Schwarz
Subject: NECToday: As Seen on TV - NEC Provides Powerful Crime Solving Face Recognition Software to Law Enforcement

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NEC Today

As Seen on
TV: NEC
Provides
Powerful



Crime Solving Face Recognition Software to Law Enforcement

If you're a fan of any of the detective shows available on television and streaming services, you've probably seen an episode or two where a crucial part of solving the fictional crime is using face-recognition software to identify potential suspects. It's the digital version of an old-fashioned police lineup. The scenario usually involves detectives finding an old photo or obtaining ...

[Read more.](#)



Biometrics Enhances LPGA Fan Experience

Ladies Pro Golf Association (LPGA) founded in 1950 is a premier professional women's sports association that provides programs, instruction, tournament play, as well as charitable events through its foundation. Recently, at the ANA Inspiration Tournament in Palm Springs, California, the LPGA and NEC worked together to pilot a program that provided facial recognition solutions for safety and security of its ...

[Read more.](#)

Protecting critical infrastructure and the fan experience with biometric face recognition



From concert halls to sports stadiums, nothing ruins an outing like a public safety incident. Whether it's due to a fan's reaction to an unpopular ruling

Stone, Andrea

From: Morgan, Kretonia <kretonia.morgan@ext.us.panasonic.com>
Sent: Tuesday, December 12, 2017 4:54 PM
To: jbarbieri@springfieldpolice.net
Subject: Panasonic Security Solutions for the Springfield Police Department
Attachments: WHY ADVIDIA.pdf; 2017 Panasonic Video Surveillance Catalog.pdf; VI7 Key Features 2017.pdf; PANASONIC PTZ PDF NEW FOLDER 08-1PTZ Facial Recognition.pdf

Importance: High

Commissioner Barbier,

Panasonic Company leading IP video surveillance management software powered by Video Insight is used by over 25,000 customers in the financial, government, retail, and transportation sectors with a very strong presence in the education market consisting of 5,000 K-12 school/college customer. Video Insight is the easiest and most cost-effective enterprise VMS with support for over 3,000 camera models and integration with the top access control solutions in the market. Panasonic can upgrade your existing video surveillance system or design a new one altogether. We can work with you directly or through your systems integrator, as we have excellent working relationships with technology professionals nationwide. We would love for you to consider the Panasonic Security Solution for any current or upcoming projects.

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Welcome to Panasonic Security System support site. Find solutions and help for your Panasonic Security System products from our online information. Download manual ...

Video Insight software provides a sophisticated, yet, easy-to-manage system that allows you to record and monitor live video from a centralized location, the internet, or even from a Smartphone or device (iPhone/iPad, Blackberry, Droid). Because Video Insight is designed for multi-facility use, it is perfect for governmental entities which can often have dozens of buildings, sometimes in different cities and states.

Operating on your existing network infrastructure, Video Insight makes efficient use of bandwidth, and is typically less taxing on your system than our competitors, freeing up much-needed space for other computer network functions. In the aftermath of an incident – a theft, confidentiality breach, vandalism employee conflict situation – exporting recorded video to burn on a cd or email to law

enforcement/security is so simple that virtually no training is required for employees to be up and running on the system shortly after installation.

We offer a U.S.-based technical support staff which operates on a one-hour call back guarantee so your organization will never be without the dedicated customer service you deserve.

<http://security.us.panasonic.com/>

Video Management Software and Surveillance System ...

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Panasonic provides IP video management software and surveillance system.

- * – Learn why Video Insight is the premier VMS provider for across the US
- * – Review the full catalog of cameras provided by Advidia; No license fees if used in conjunction with Video Insight Management software
- * – See what some of our largest customers have to say about VI
- * – Download and install our VMS software completely free of charge for 60 days with use for up to 99 cameras
- * – Play around with a live stream of cameras from our office
- * – A basic introduction to our software's features and functionality.

If you have any questions, please don't hesitate to contact me directly at (713) 581-9248.

We have many vendors in the local market area that I would be more than happy to get you in contact with. Please let me know if you have any questions.

Request your free pilot here!

(Download our [iPhone](#) or [Android](#) mobile app and instantly connect to our demo server!)

KreTonia Morgan

Customer Engagement Specialist - North Territory

Surveillance and Security Solutions

Panasonic North America

800 Gessner Road Suite 700

Houston, Texas 77024

E: kretonia.morgan@ext.us.panasonic.com

Telephone: 713-581-9248

Panasonic     

Stone, Andrea

From: Barbieri, John <JBarbieri@springfieldpolice.net>
Sent: Wednesday, December 13, 2017 10:30 AM
To: Schwarz, William J
Subject: FW: Panasonic Security Solutions for the Springfield Police Department
Attachments: WHY ADVIDIA.pdf; 2017 Panasonic Video Surveillance Catalog.pdf; VI7 Key Features 2017.pdf; PANASONIC PTZ PDF NEW FOLDER 08-1PTZ Facial Recognition.pdf

Importance: High

FYI

John R. Barbieri
Police Commissioner
130 Pearl Street
Springfield, MA 01101
413.787.6313

From: Morgan, Kretonia [mailto:kretonia.morgan@ext.us.panasonic.com]
Sent: Tuesday, December 12, 2017 4:54 PM
To: Barbieri, John
Subject: Panasonic Security Solutions for the Springfield Police Department
Importance: High

Commissioner Barbier,

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Welcome to Panasonic Security System support site. Find solutions and help for your Panasonic Security System products from our online information. Download manual ...

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Video Management Software and Surveillance System ...

security.us.panasonic.com

Panasonic provides IP video management software and surveillance system.

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- * – See what some of our largest customers have to say about VI
- * – Download and install our VMS software completely free of charge for 60 days with use for up to 99 cameras
- * – Play around with a live stream of cameras from our office
- * - A basic introduction to our software's features and functionality.

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We have many vendors in the local market area that I would be more than happy to get you in contact with. Please let me know if you have any questions.

Request your free pilot here!

(Download our [iPhone](#) or [Android](#) mobile app and instantly connect to our demo server!)

KreTonia Morgan

Customer Engagement Specialist - North Territory

Surveillance and Security Solutions

Panasonic North America

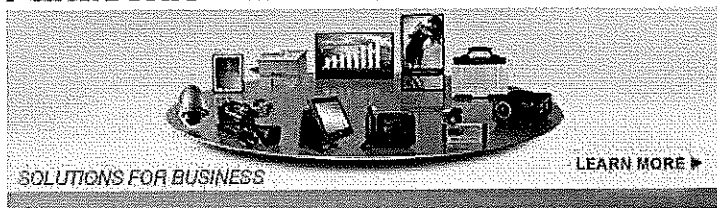
800 Gessner Road Suite 700

Houston, Texas 77024

E: kretonia.morgan@ext.us.panasonic.com

Telephone: 713-581-9248

Panasonic     





IP cameras for all application needs

Why Advidia?

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.



• Wide Range of Professional Camera Models with Free Video Insight VMS Software License

Advidia cameras are preconfigured with a free license of Video Insight enterprise VMS software, 3 years of advance replacement warranty, and free SUP for the life of the camera.



• Pricing – Lower Total Cost of Ownership (TCO)

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



• Powerful Enterprise VMS Software Included

Each Advidia camera includes a free license of Video Insight VMS software. A powerful enterprise VMS solution that supports over 2,400 camera models from more than 100 manufacturers and integrates with most popular access control models.



• A Warranty Like No Other

The Advidia line of IP video surveillance cameras is backed by a 3-year warranty with advance replacement. Your replacement product ships as soon as you contact support.

ONVIF • ONVIF

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.



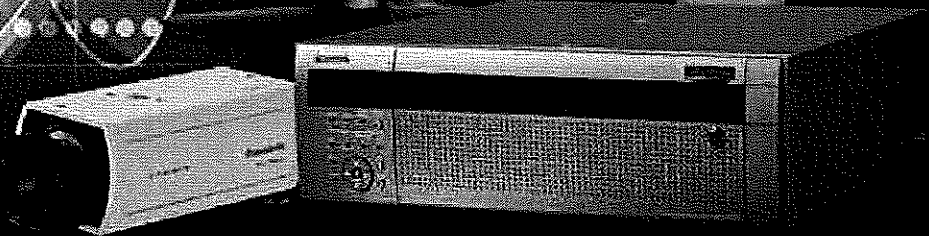
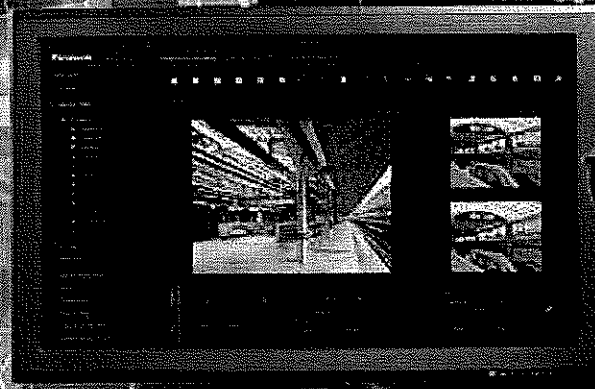
• World-Class U.S.-Based Tech Support

Advidia products are backed by a world-class, U.S.-based technical support team that operates on a One-Hour Callback Guarantee.

Panasonic

i-PRO
EXTREME

EXTREME PERFORMANCE UNDER EXTREME CONDITIONS



2017 VIDEO SURVEILLANCE CATALOG

WHY PANASONIC?

From the company that brought you the first security camera in 1957 and invented over a dozen industry standards, Panasonic provides industry-leading solutions to capture, record, manage and analyze surveillance video. Panasonic provides a comprehensive lineup of video surveillance products and solutions that offer the industry's highest picture quality, mission-critical reliability and the industry's lowest total cost of ownership. When it counts, you can count on Panasonic video surveillance products and systems to deliver.

SURVEILLANCE AND MONITORING SYSTEMS LINEUP

NEW

i-PRO Extreme ■ 2-3
Aero PTZ ■ 4-5
Smart Coding ■ 6-7
True4K ■ 8-9
Video Insight ■ 10-11
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6, 5, 3 & 1 Series ■ 14-15
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Key Benefits of Panasonic Video Surveillance Cameras ■ 20-25

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Panasonic



Sign up today and enjoy the free benefits

Panasonic's new i-PRO Preferred Program provides added value to your i-PRO video surveillance camera purchase without adding cost. i-PRO Preferred strengthens your warranty, expedites service response, and includes a bundled Video Insight camera license. New and current owners of select i-PRO camera models* are eligible upon registration for a free upgrade to this preferred service status.

Enjoy these benefits:

Add a two-year extended warranty to your existing three-year factory warranty upon registration.

While competitive manufacturers charge an annual camera license fee for each camera connected to their VMS, you'll enjoy a bundled Video Insight camera license with each eligible i-PRO camera.

Receive replacement units shipped the same day with overnight delivery.

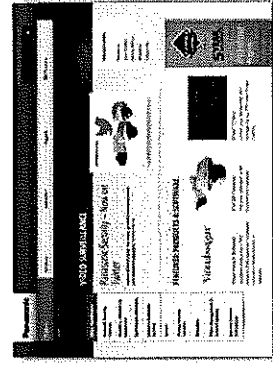
5YEAR
WARRANTY

VIDEOINSIGHT
UNLIMITED LICENSE



Sign up today at www.us.panasonic.com/ipropreferred.

*U.S. purchases only. Select Panasonic i-PRO cameras with a manufacturing date after October 2012, or select the V17AS license and the additional two-year warranty upon registration.



Visit www.panasonic.com/security
for the most up-to-date news on
Panasonic video surveillance products.

**NEW
H.265**

Panasonic introduces a completely new line up of Extreme Performance i-PRO Cameras, Recorders and Management Software delivering **EXTREME PERFORMANCE UNDER EXTREME CONDITIONS**

New i-PRO platform cameras deliver Extreme Visibility with outstanding low-light performance from their 1/3" sensors that rival many 1/2" sensor cameras and feature an industry leading 144dB of Extreme Dynamic Range delivering balanced exposure and accurate color in even the most challenging lighting environments. Auto-Intelligence features like automatic scene-detection continuously monitor the field of view and instantly adjust the camera parameters to optimize for best image capture based on scene dynamics, compensating for motion and constantly changing lighting. i-PRO's Extreme Compression begins with industry standard H.265 encoding generating up to a 50% reduction in bandwidth compared to H.264 and Panasonic's Advanced Smart Coding and Intelligent Face Coding features push that figure up to an 80% reduction. Extreme Reliability is enabled by technologies like HDD Dynamic Power Control for the new WV-NV400 class recorder that reduces the frequency of HDD failures and greatly extends their working life and Automatic-Follow which allows two recorders to run in tandem for seamless redundancy in mission critical applications. Panasonic's i-PRO Preferred Program stands behind i-PRO's Extreme Reliability by adding 2 years of factory warranty to the standard 3 year warranty on cameras. i-PRO's Extreme Data Security means the new i-PRO Extreme surveillance platform employs PC-level IP-Data Security standards via Panasonic's Secure Communications Suite and robust authentication using Symantec Device Certificates delivering comprehensive end-to-end data protection on all new i-PRO Extreme-based cameras, recorders and video management software.

**EXTREME VISIBILITY
ENABLES CAPTURE OF THE HIGHEST QUALITY IMAGES AUTOMATICALLY
EVEN IN VERY DYNAMIC AND CHALLENGING LIGHTING ENVIRONMENTS**

INTELLIGENT AUTO Continuously monitors scene dynamics and automatically adjusts key camera settings in real-time to optimize captured images
EXTREME SUPER DYNAMIC RANGE Extends dynamic range to an industry leading 144dB enabling balanced scene exposure even in the most difficult lighting conditions
COLOR NIGHT VISION Delivers outstanding low-light performance with accurate color rendition from a 1/3" sensor, trailing performance from more costly 1/2" sensor cameras

**EXTREME COMPRESSION
INDUSTRY STANDARD H.265 AND PANASONIC'S SMART CODING
TECHNOLOGIES DELIVER THE HIGHEST QUALITY IMAGES AT THE LOWEST BITRATES**

H.265 COMPRESSION Industry standard H.265 compression delivers high quality images while reducing streaming and storage requirements by approximately 50% over H.264
SMART CODING Working on top of H.265, Smart Coding technologies like GOP Control and Auto-MBs reduce bandwidth requirements even further for up to an 80% efficiency over H.264
SMART FACIAL CODING Automatically detects faces and self-learns motion areas of a scene to ensure the highest quality recording of detected faces and regions of interest

**EXTREME RELIABILITY
NEW TECHNOLOGIES DELIVER LOW FAILURE RATES AND THE 5 YEAR
i-PRO PREFERRED WARRANTY STANDS BEHIND PANASONIC'S HIGH RELIABILITY**

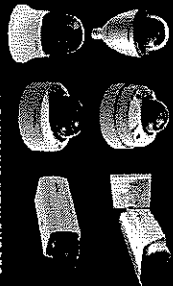
HDD POWER CONTROL HDD Dynamic Power Control intelligently powers down HDD's without risking recording loss, extending HDD life up to 7 years*
AUTO-FOLLOWER New WV-NV400 recorders can be connected in tandem to enable seamless recording redundancy for mission critical applications
5 YEAR WARRANTY Panasonic's i-PRO Preferred program adds an additional 2 years to the factory 3 year warranty on i-PRO cameras for a total of 5 years which includes Advanced Exchange**

**EXTREME DATA SECURITY
PANASONIC'S SECURE COMMUNICATION SUITE AND SYMANTEC'S
DEVICE CERTIFICATION ENSURES ROBUST END-TO-END IP SECURITY**

SECURE COMMUNICATION A PC-level security suite embedded in all new i-PRO Extreme Cameras, Recorders and Management Software enabling data and communications encryption
SYMANTEC AUTHENTICATION Panasonic's has partnered with Symantec, the global leader in cybersecurity, to deploy their reliable Device Certificate technology on all i-PRO Extreme devices
FIPS CERTIFIED i-PRO Extreme products meet the Federal Information Processing Standard (FIPS) 140-2 Level 1, as required for FBI and Public Safety use

**i-PRO
EXTREME**

NEW CAMERAS **1/3" HD**
SECURE H.265 CAMERA LINE-UP



NEW H.265 i-PRO HD & Full HD 4K/30 cameras line-up
featuring Extreme Visibility, Extreme Compression, Extreme Reliability and Extreme Data Security performance

EXTREME VISIBILITY
Ultra High Sensitivity 0.008 (H.265), 0.012 (H.264)
Color Night Vision - Full Color in low light
Extreme Super Dynamic Range 144dB
Auto Scene-detection and Optimization

EXTREME COMPRESSION
H.265 Compression - Fully H.264 Compatible
Smart Coding - Long GOP Mode, Auto MBs
Smart Facial Coding

EXTREME RELIABILITY
Easy Install "Click-Sight" Dome
Integrator Image Stabilization on PTZs
Reliable night time image capture via built-in IR

EXTREME DATA SECURITY
Secure Communication Suite
Symantec Device Certificates

i-PRO EXTREME H.265 SERIES LINE-UP

Camera	Model	Resolution	Frame Rate	Field of View	Low Light	Dynamic Range	Compression	Storage	Reliability	Security
1/3" HD	WV-SC11	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
1/3" HD	WV-SC11L	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
1/3" HD	WV-SC11M	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
1/3" HD	WV-SC11S	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
1/3" HD	WV-SC11L	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
1/3" HD	WV-SC11L	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
1/3" HD	WV-SC11L	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
1/3" HD	WV-SC11L	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
1/3" HD	WV-SC11L	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
1/3" HD	WV-SC11L	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure

Recorder	Model	Resolution	Frame Rate	Field of View	Low Light	Dynamic Range	Compression	Storage	Reliability	Security
4-Channel H.265 NVR	WV-NV400	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
8-Channel H.265 NVR	WV-NV400L	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
16-Channel H.265 NVR	WV-NV400S	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure
32-Channel H.265 NVR	WV-NV400S	1080p	30fps	6.2°	Yes	144dB	H.265	16TB	5 Year	Secure

SECURITY
i-PRO Extreme H.265 Video Management Software Supports 16 Cameras and 16TB per device, schedule
Supports license from AS/SEC to AS/SEC
Datastore license for AS/SEC

Panasonic

WV-AS1600 **16CH**

SECURE H.265 VIDEO MANAGEMENT



NEW Powerful Windows application enables a secure, scalable H.265 ready, multi-camera, multi-recorder surveillance management environment

FULLY INTEGRATED & SECURE
Camera control, viewing and recorder management
Integrates i-PRO Extreme H.265 & i-PRO H.264 equipment
Secure Communication and Symantec Device Certificates

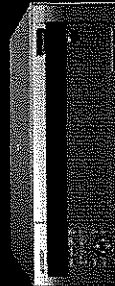
POWERFUL USER INTERFACE
New GUI design & 4K native GUI enhances usability
Automatic camera configuration wizard
Now include multi-emulator and WV-CMP support

SCALABLE & EXTENDABLE
Base: 100 cameras, 16 encoders and 16 cameras
Expandable to thousands of cameras, recorders and encoders

EASY TRIAL OPTIONS
New i-PRO Extreme Video Management Software Supports 16 Cameras/1 Recorder
No annual license fees

WV-NV400 **16CH**

SECURE H.265 SYSTEM RECORDER



NEW H.265 H.264 high-throughput and scalable recorder
featuring integrated GUI and request embedded IP security enabling a secure end-to-end PC-less surveillance solution

SECURE HIGH BANDWIDTH RECORDING
44 Channels - 1080p (H.265/264)
38Mbps recording bandwidth
Secure Communication and Symantec Device Certificates

PC-LESS SURVEILLANCE SOLUTION
Built-in GUI and Dual HDMI Outputs
Automatic camera configuration
24x7 Stream Recording for mobile playback

SCALABLE STORAGE
19 Integrated Drive-bays RAID6
External storage expansion up to 270TB
External storage expansion up to 270TB

VIDEO RELIABILITY AND REDUNDANCY
Dynamic HDD Power Management increases HDD life
Redundant fail-over using 2nd Recorder

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NEW

PANASONIC UNVEILS AERO PTZ CAMERA FOR EXTREME ENVIRONMENTS

Panasonic has introduced the Aero PTZ, a new, environmentally rugged pan/tilt/zoom (PTZ) camera built to deliver high-performance surveillance in extreme weather conditions. Lightweight at approx. 17.64 pounds, the Aero PTZ is designed to operate in mission-critical applications including vital infrastructure in cities, ports, airports, traffic, highways, railways and more.

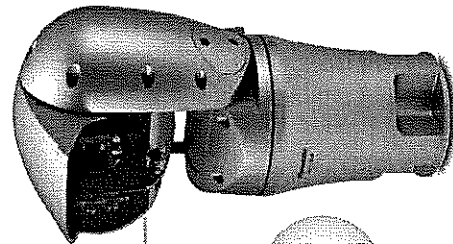


FULL HD RESOLUTION WITH 360-DEGREE VIEWING

- The Aero PTZ delivers Full HD resolution of 1080p at 60 fps with a 30X optical zoom lens
- Hybrid image stabilization suppresses vibrations between 1 to 30 Hz, to keep images stable
- 360-degree Sphere Vision 3D viewing provides 360-degree continuous panning and +/- 90-degree tilt range
- IR Illuminator is integrated with a zoom interlocking lens, which provides up to an additional 500 feet of visibility in complete darkness (Optional)
- Integrated with Smart Coding technology that reduces bandwidth up to 80% without sacrificing image quality
- Super Dynamic Light Range Compensation ensures a wider dynamic range compared to conventional cameras

HIGHLY RUGGED, SLEEK BODY DESIGNED FOR EXTREME CONDITIONS

- High strength, sleek fiber glass body and borosilicate glass provides salt and air corrosion protection, making it highly durable in even the toughest weather conditions from salty wind gusts, to harsh sunshine to the severe arctic cold.
- Unique intelligent-radius bodyline minimizes wind drag for more stability and prevents snow and dirt accumulation
- Fully water and dust proof conforming to IP67, NEMA-4X compliant and IK10 environmental specifications
- Operates in the hottest and coldest conditions from -58°F to +140°F
- Wind load durability at 135mph (operational)
- Built-in wiper and defroster



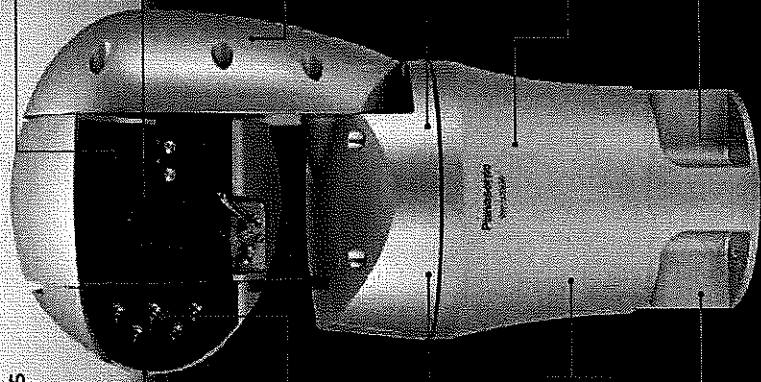
AERO PTZ CAMERA ACCESSORIES



Panasonic

EXTREME PERFORMANCE UNDER EXTREME CONDITIONS

WV-SUD638
RUGGED PTZ CAMERA FOR
EXTREME ENVIRONMENTS
1080p 60fps
30x Optical Zoom



INTEGRATED WIPER & DEFROSTER
Prevents salt and ice buildup on lens

INTERLOCKED WITH SMART CODING
Advanced compression technology that
reduces bandwidth up to 80% without
sacrificing video quality

Gyro-driven technology suppresses
vibrations between 1 to 30 Hz to
keep images stable

Delivers high performance in
extreme hot or cold environments
-58°F to +140°F

Conforms to IP66, IP67, NEMA-4X
compliant

Pre-engineered pole mount,
wall mount, and corner mounts
are available

Shown with optional IR LED

AeroPTZ

UPDATED

PANASONIC INTRODUCES SMART CODING TECHNOLOGY – REDUCE BANDWIDTH WITHOUT SACRIFICING VIDEO QUALITY

Introducing Panasonic Smart Coding, an in-camera surveillance technology that reduces bandwidth usage up to 80% without sacrificing video quality. It delivers the resolution and frame rates you demand, while substantially lowering storage and networking costs.

Smart Coding is available on all standard new 1, 3, 5, 6 & True 4K Series cameras.

And Smart Coding is available on all new i-PRO Extreme (H.265) cameras.

UP TO 80%*
BANDWIDTH REDUCTION

HOW DOES SMART CODING WORK?

Smart Coding combines 2 Encoding Load Reduction technologies & 2 Noise Reduction technologies together to provide a bit rate reduction of up to 80%, in the video without losing image quality.

NOISE REDUCTION

3D-MNR reduces grainy noise generated in low-illumination environments.

FDF reduces fine noise that is generated at slightly low illuminance.

ENCODING LOAD REDUCTION

GOP Control reduces encoding data by using p-frame in place of i-frame when no motion is detected.

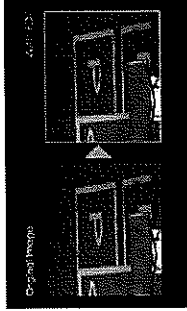
Auto-VICS can automatically determine areas with and without motion and reduce the data volume of those without motion.

Panasonic

NOISE REDUCTION

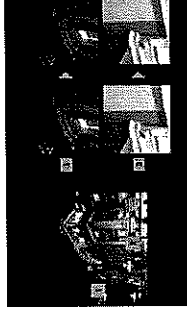
FREQUENCY DIVIDED FILTER (FDF)

To remove fine noise from low-light footage, FDF separates camera output by frequency, removes noise and then recomposes the data, resulting in crisper, cleaner video.



3D-MULTI-PROCESS NOISE REDUCTION (3D-MNR)

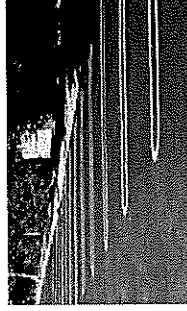
3D-MNR reduces bit rates by reducing video noise and grain. The result: cleaner final images that stream at significantly lower bit rates.



ENCODING LOAD REDUCTION

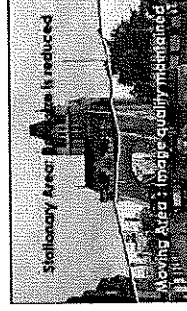
GROUP OF PICTURE (GOP) CONTROL

GOP Control strips out data related to motionless elements in the scene, lowering bit rates. When moving objects enter the frame, the bitrate increases to capture the action.



AUTO-VARIABLE IMAGE QUALITY ON SPECIFIED AREA (VICS)

Auto-VICS finds moving areas automatically and reduces image quality of less motion area to save bandwidth.

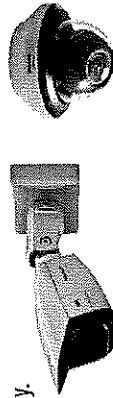


FOR MORE INFORMATION, VISIT: info.panasonic.com/smart-coding

*3D-MNR & FDF are not available in Panasonic True 4K cameras.

ULTRA-HIGH 4K PICTURE QUALITY FOR DETAILED, WIDE-AREA MONITORING WITH A SINGLE CAMERA

Now Featuring H.264 Smart Coding GOP Technology. Up to 80% lower bandwidth with the same image quality.



4K
ULTRA HD

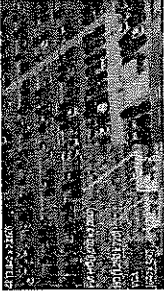
TRUE 4K
Weatherproof Network Camera
4K Vandal Resistant

WV-SF781L
Weatherproof Dome Network Camera
4K Vandal Resistant

ULTRA HIGH-DEFINITION, 4K PICTURE QUALITY

Ultra HD 4K cameras offer 27 times the resolution of conventional analog cameras (VGA), nine times that of standard HD (1,280 x 720) and four times that of Full HD (1,920 x 1,080). This means that the finer details of images remain clear even when you need to magnify only a part of the image.

The high performance lens used by Panasonic's 4K cameras provides uniformly high-resolution images from the center out to the edges.

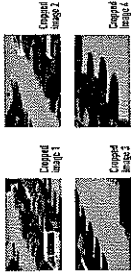


CROPPING FUNCTION

A given area within a single image can be selected, cropped and displayed. For example, areas with high monitoring priority, such as a parking garage entrance or a hallway, can be selected and displayed for easy viewing. You can still keep an eye on the overall image while also focusing on specific areas. With PTZ cameras, when the lens is pointed in a single direction, other areas go out of view during that time, but with a 4K camera you can monitor the entire area while also watching specific areas requiring more focused monitoring.



4K 13,840 x 7,200



HD 1,280 x 720 x 4

WIDE-AREA MONITORING

A single 4K camera can effectively monitor a wider area, which allows you to reduce the total number of cameras while also eliminating blind spots. Monitoring can be performed not only at vertical and horizontal angles, but for deeper depths as well. And, even when monitoring within the same area, 4K's increased range means that the number of units required is reduced substantially compared to that of conventional cameras. This translates into reduced costs for the cameras themselves, less installation time and labor, and lower maintenance costs.

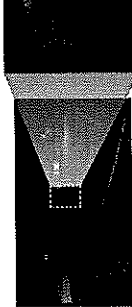
4K-ready monitors can also reduce the number of monitors needed in the control room.



Monitoring range of HD 4K cameras

LOW LIGHT READY

The camera's ultra-high 4K resolution allows it to capture color images in dim, low-light conditions. In even darker conditions, the camera can use its monochrome inversion function to switch to black-and-white images, and in zero-light conditions it can accurately display what is happening in front of it using infrared LED vision.



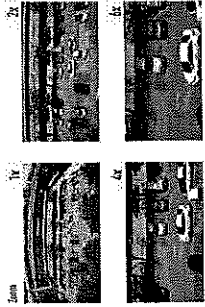
Light near subject: 1 lx

HIGH-POWER 6X ZOOM LENS WITH AN ULTRA-WIDE ANGLE OF 100°

An optical 6x zoom lens comes standard. The viewing angle range and zoom power can be set in line with conditions where the camera is installed.

Using a proprietary 3-drive lens system, Panasonic has developed a high-power 6x zoom lens with an ultra-wide viewing angle of 100°, a type of lens that is extremely difficult to produce using conventional optical design methods.

The lens is capable of capturing an extremely wide area, allowing effective 4K coverage of outdoor areas.



- Ultra-wide-angle 100°: Wide-angle monitoring of parking lots, stadiums etc. achieving 4K resolution
- Telephoto 17x: Monitoring of individuals or crowds from a distance

PANASONIC'S TRUE 4K TECHNOLOGY

Panasonic's Proprietary 3-Drive Lens System

The I-PRO TRUE 4K WV Camera is equipped with Panasonic's proprietary 3-drive lens system, which simultaneously drives two zoom lenses and one focus lens. Having three lenses all driven independently allows them to be smaller and their drive areas reduced, and has thus enabled us to make the camera compact enough to fit in a standard camera body while providing a high-power 6x zoom with high 4K picture quality viewed from an ultra-wide-angle of 100°.

Refined Resolution and Superior Contrast for a Higher Level of Video Imaging

In order to create a sharp, clear texture, 12 lenses in four groups are used to provide the ultra-high resolution expected of 4K in every part of the image, from center to edge. Both a higher level of representational precision and a more compact lens system are achieved. Plus, all lenses are glass, while aspheric lenses are also used extensively to reduce aberrations to the ultimate degree. The clear depiction, sharp resolution and beautiful color reproduction necessary for true 4K monitoring have all been successfully achieved.



EASY INSTALLATION

Various design features have been added to shorten installation times. The camera has also been designed to be capable of pointing in the preferred direction at the preferred location.

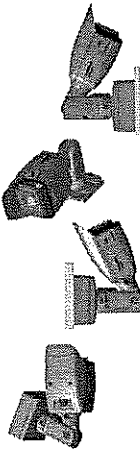
Dome Type WV-SF781L

When attached to the mounting plate, the camera's direction can be easily changed at intervals of 90°. Rotating the viewing area around the lens further allows the lens to be pointed in the desired direction. The combination of a 6x optical zoom and autofocus also shortens the amount of time required for fine tuning the installation.



Box Type WV-SP781L

A total of three adjustment points on the camera base and arms enables its position to be fine tuned to allow accurate pointing.



VIDEO INSIGHT v6 – VIDEO MANAGEMENT SOFTWARE NOW BUNDLED WITH MONITORCAST (ACCESS CONTROL)



Now Supporting i-PRO Extreme H.265 Cameras
Including Bundled VI Software License on all Panasonic and Advitia Cameras.

Panasonic acquired Video Insight, a leading developer of video management software, to expand its surveillance recording and monitoring capabilities and fulfill the company's ongoing strategy of delivering choice and flexibility to end users.

Video Insight is a member of the Panasonic Group and a leading IP video surveillance management software used by over 25,000 customers in the financial, government, retail, and transportation sectors with a very strong presence in the education market consisting of 5,000 K-12 school/college customers. Video Insight is the easiest and most cost-effective Enterprise VMS with support for over 3,000 camera models and integration with the top access control solutions in the market.

Panasonic is including a bundled camera license with all recent-model i-PRO and Advitia cameras in combination with Video Insight software. For a list of Panasonic camera models bundled with a unlimited camera license, visit us.panasonic.com/VideoInsight.

MONITORCAST

MonitorCast is an enterprise access control product that comes bundled with VI Monitor 6. MonitorCast v3.5 features complement most facilities, allowing them to access to the most used features in the access control industry. In addition, MonitorCast is designed to support Mercury access control boards.



VI TV

VI TV is a security camera video management app on Apple TV that allows users access to live and recorded video from any camera on any Video Insight server.



PRE-CONFIGURED SERVERS

Video Insight Servers come pre-loaded, activated, and tested with the full Video Insight Software Suite. The "plug and play" servers are ready immediately out-of-the box for a quick start to record and view your cameras. We have a wide variety of NVR configurations available based on the number of IP cameras, the amount of storage, and the processing capacity. Both towers and rack mounts are available. For a full list of pre-configured servers, please visit business.panasonic.com/products-videosurveillance-servers.

Panasonic

ADVITIA

The Advitia brand is a solid performing yet cost effective product set that when coupled with the Video Insight Recording Solution, offers a perfect complement to the Panasonic brand of highly featured products and solutions. Advitia cameras came in many different form factors (bullet, dome & PTZ) to meet your needs. Visit business.panasonic.com/advitia for more information.

advitia

YOUR SYSTEM SCALES WITHOUT LIMITATIONS

Video Insight's 64-bit VMS supports an industry-leading number of cameras per server, unlimited scalability, client workstations, users with simple integration to legacy systems, centralized administration of the system and more.

LOWER TOTAL COST OF OWNERSHIP (TCO) THAN ANY OTHER ENTERPRISE VMS

Affordability, flexibility and a simple licensing model are what sets Video Insight apart. VI provides the most cost-effective enterprise-class VMS solution on the market. With Video Insight, end users receive a perpetual license that includes a wide range of enterprise features—and no hidden fees.

EASY INTEGRATION WITH EXISTING SYSTEMS

Video Insight easily integrates with your existing systems, including access control and building management. Our robust SDK and API make it easy to integrate video or alarms into a centralized console.

MAXIMIZE UPTIME AND PROTECTION

Maximize protection with redundant recording to multiple Network Video Recorders (NVRs), Health Monitor, automated failover, and easy-to-use load balancing allow migration of cameras between servers. All of these features can provide high system availability for both live and recorded video at all times. User access privileges and security features ensure tamper-free protection of all your video, data and audio.

VI MOBILE—SURVEILLANCE ANYWHERE

VI Mobile is a video management system app that allows authorized "on the go" users to access live and recorded video from any camera on any server. Users can view and control PTZ cameras, and view images in full resolution and high frame rates with H.264. The app imports all settings from a single address, providing users access to individual cameras or groups of cameras in predefined layouts. Users can save or email snapshots, view recorded images by alarm or specific times and view thumbnail images on facility maps. Users can also trigger events to display customized actions on Monitor Station/VI Monitor directly from mobile devices.



DELIVERING SHARPER IMAGES WITH HIGHER SENSITIVITY

Presenting a 9 Megapixel 360-degree Network
Camera with Built-In Analytics.

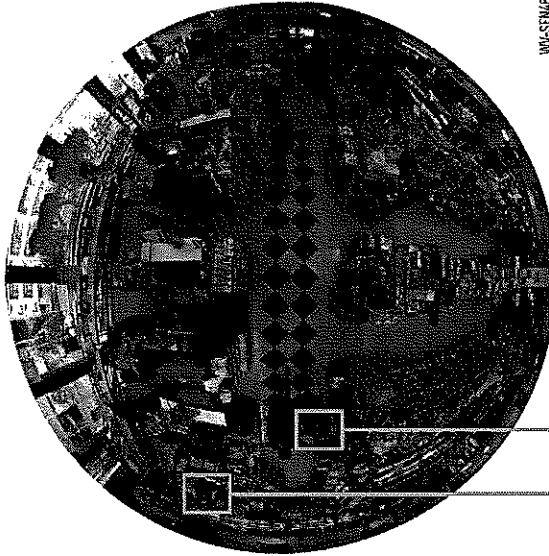
ULTRA 360 4K



WW-SFV480
360-degree Indoor Dome
9 Megapixel Network Camera



WW-SFV481
360-degree Vandal Resistant
Outdoor Dome
9 Megapixel Network Camera



WW-SFV480



26 ft

WW-SFV481



13 ft

9M (3K x 3K) HIGH-RESOLUTION
H.264 PERFORMANCE ENABLES
SHARP RENDERING OF OBJECTS
AND PEOPLE'S FACES AT THE
EDGE SECTIONS OF THE FISHEYE

NOW WITH SMART CODING

UP TO 80%
BANDWIDTH REDUCTION

Panasonic

COMPLETE WITH POWERFUL ANALYTICS BUILT-IN

HEAT MAP*

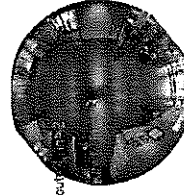
This provides visualization of the traffic patterns by people and how long they stay in one place. For example, you can place products based on how people tend to flow within the store and arrange objects so that they do not interfere with the movement of people.

*Requires WW-SAN700/SAN700-GHWT.



PEOPLE COUNTING

This counts the number of people passing through a selected preset location. The People Counting function can provide statistics on the number of people entering and leaving a specific zone and other useful data.



MOVING OBJECT REMOVAL (MOR)

Enables monitoring of changes only to the surrounding environment by removing people and other moving objects from the video. This function can be used with camera images for confirming how products placed in a salesroom are selling while also respecting the privacy of customers in store surveillance.

*To enable analysis, please add the optional WW-SAE200 software.



The ULTRA 360-degree lineup features the "Three Ultras" for establishing a new standard for video monitoring.

ULTRA HIGH RESOLUTION

Includes a 12-megapixel high-sensitivity sensor capable of 4K image output for producing high-resolution images up to 9M (3K x 3K) in Fisheye mode. Detailed monitoring in all directions using the wide range of distribution modes and Multi-stream. (Fisheye mode, Panorama mode, Double Panorama mode, Quad PTZ mode, Single PTZ mode, 4-Stream mode).

ULTRA HIGH SENSITIVITY

Provides natural-looking, crystal-clear images even in dim locations. Includes a new powerful image sensor and new lens. Automatic switching between day/night shooting modes and the linked Auto Back Focus enables monitoring even in dim environments.

ULTRA INTELLIGENT

Heat-map / People Counting (Cross line) / MOR (Moving Object Removal). Focuses on the movement of people for providing a video-based intelligent solution for use in marketing.

STANDARD H.264 LINE-UP FEATURES HIGH PERFORMANCE & NEW SMART CODING TECHNOLOGY



The next-generation UniPhier® Camera Platform is the heart of Panasonic's top-of-the-line 6 Series, midrange 5 Series, 3 Series and now entry-level 1 Series camera lines. Featuring a newly developed high-sensitivity MOS Sensor and Shadow H.264 Compression Engine, the powerful UniPhier® Platform delivers sharp and natural color images with exceptional low-light performance capability (down to .01 lux). The new Codec Engine attains the best video compression performance to provide superb image quality while providing savings on bandwidth and the recording system.

The UniPhier® Platform—developed exclusively by Panasonic for use in its 6, 5, 3 and 1 Series cameras—offers innovative functions like Enhanced Super Dynamic Range (133db) video dynamic range and 40-frames-per-second performance in 1080p and 720p, delivering outstanding performance even in the most dynamic and challenging lighting conditions. The cameras have the ability to encode up to four H.264 streams to ensure simultaneous real-time monitoring, high-resolution recording and mobile access.

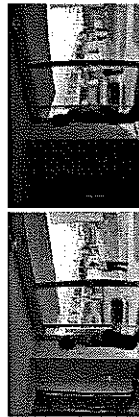
NEW 1 SERIES MODELS NOW AVAILABLE



WV-SV101M WV-SV101 WV-SV100 WV-SV100D

ENHANCED SUPER DYNAMIC LIGHT RANGE COMPENSATION

Featuring industry-leading 133db (1 Series up to 122db) Enhanced Super Dynamic and Adaptive Black Stretch (ABS) technologies, the new 1/35/6 Series cameras allow you to see images that you couldn't see before.



Enhanced Super Dynamic:
133db Wide Dynamic Range

Conventional Super Dynamic Range

EXCEPTIONAL IMAGE QUALITY

The 3/5/6 Series cameras' ultrafast frame rate of 60 fps combines with their high-resolution video quality to ensure crisp, smooth motion for applications in casinos, airports, stadiums and much more.



60 fps Simulated

30 fps Simulated

Panasonic

SMART CODING REDUCES BIT RATES UP TO 80% WITHOUT SACRIFICING IMAGE QUALITY

Smart Coding is the only in-camera surveillance technology that reduces bandwidth usage up to 80% without sacrificing video quality. This more efficient, fully compliant H.264 implementation delivers the same high quality resolution and frame rates to preserve forensic detail, while substantially lowering your storage and network costs.



Panasonic combines three advanced signal processing technologies—Group of Picture Control, 3D-Multi-Process Noise Reduction and Frequency Divided Filter—which together provide a bit rate reduction of up to 80% in the video without losing image quality.

This breakthrough innovation comes standard on all new 1, 3, 5 and 6 Series cameras, or as a free upgrade for these models.

HIGH SENSITIVITY WITH MULTIPROCESSING NOISE REDUCTION

With a combination of 3D noise reduction and multiprocess noise reduction (MNR), both the bright area and the dark area of an image are faithfully reproduced with minimum noise in high-sensitivity image recording.



WV-SV101 at 0.57 Lux

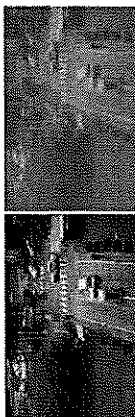
Conventional Camera at 0.27 Lux

EASE OF INSTALLATION

The 1/35/6 Series cameras are easy to install, with six patterns of holes for various gang boxes, a 4-point locking mechanism to simplify the mounting direction, a non-screw lock PTV mechanism to enable quicker angle adjustment and a flat-bottom body to enable installation without a surface mounting unit.

WEATHER COMPENSATION

To help improve the captured image in poor weather conditions, such as smog, fog or smoke, the visibility of the 1/35/6 Series cameras can be enhanced in any weather condition.



Fog Compensation ON

Fog Compensation OFF

SMART DOF (DEPTH OF FIELD)—6 SERIES ONLY

With this new feature, a 6 Series camera controls both the iris and the shutter to deliver a deeper depth of field. The depth of field (DOF) is automatically optimized to enhance focus for both near and far objects within the camera's view.



6 Series

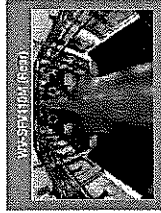
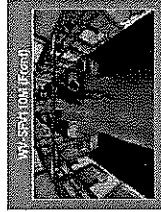
Conventional Fixed Dome Camera

FOR MORE INFORMATION ON 6, 5, 3, AND 1, VISIT www.us.panasonic.com/uniphier

TRANSIT SURVEILLANCE SOLUTIONS

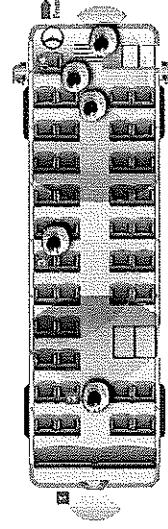
Our NEW I-PRO Transit solution equips transit agencies with the tools to provide a safer environment for bus passengers and drivers while protecting the vehicles from theft and vandalism and reducing expensive manpower requirements to manually upload video data. The system provides complete video surveillance of the inside and outside of the bus—improving response times to incidents as well as increasing the chances of arrest and conviction should a crime occur, helping reduce time spent in litigation.

IN TRAINS



180-degree Panorama mode

IN BUSES



Wide Coverage without Blind Spots

The application of rain-wash coating to the dome cover provides clearer visibility, allowing good security to be maintained even when the camera is installed in an environment subject to rain or water splashing. In addition, the coating resists attachment of dirt to the dome cover, and also allows dirt to be washed off easily during rainfall or other exposure to water.

Compatible with EN50155 "Railway applications" and EN43545 "Fire safety on rolling stock"
EN50155 "Railway applications": Electronic equipment used on rolling stock
EN43545 "Fire safety on rolling stock": Preventive fire protection in railway vehicles - Fire behavior and fire side effects of materials and parts.

TRANSIT SOLUTION RELATED PRODUCTS

360-degree Dome Network Cameras

WV-SF4481

- 360° monitoring with a wide variety of transmission modes: Panorama, Double Panorama, Quad PTZ, Single PTZ, and Quad streams (H.264)
- 9 mega (2,992,992) pixel images up to 15 fps for new 4K ULTRA HD engine
- Compatible with EN50155 "Railway applications" and EN43545 "Fire safety on rolling stock"
- Low profile design for discrete installation
- Vandal resistant mechanism for high reliability
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard. Type 4X (UL50), NEMA 4X compliant

WV-SW450MA

- 360° monitoring with a wide variety of transmission modes: Panorama, Double Panorama, Quad PTZ, Single PTZ, and Quad streams (H.264/H.265)
- 1080p Full HD images up to 30 fps
- Compatible with EN50155 "Railway applications" and DIN 5510-2 "Fire safety on rolling stock"
- Low profile design for discrete installation
- Vandal resistant mechanism for high reliability
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard. Type 4X (UL50), NEMA 4X compliant

Compact Size Dome Network Camera

WV-SF130M/110M

- 1080p Full HD images (WV-SF130M), 720p HD images (WV-SF110M) up to 30 fps
- High sensitivity with Day/Night (Electronic) function. 0.04 lx (Color), 0.03 lx (B/W) at F2.3 (WV-SF110M)
- Compatible with EN50155 "Railway applications" and EN43545 "Fire safety on rolling stock"
- Low profile design for discrete installation
- Vandal resistant mechanism for high reliability
- IP66 rated water and dust resistant. Compatible with IEC60529 measurement standard. Type 4X (UL50), NEMA 4X compliant

Rugged Mobile Network Camera

WV-SB131M / WV-SB111M

- 1080p Full HD images (WV-SB131M), 720p HD images (WV-SB111M) up to 30 fps
- High sensitivity with Day/Night (Electronic) function. 0.04 lx (Color), 0.03 lx (B/W) at F2.2 (WV-SB111M)
- The camera conforms to the IP6A, Type 4X (UL50) and IP66/IP67, is compliant with NEMA 4X ratings, and provides high dust resistance and waterproof performance
- Achieves high-level vibration resistance with EN50155 and MIL-STD-883C compliance
- Addition of a scratch resistant dome cover with a compact and sleek design is optimal for cameras installed on the outside of a vehicle
- Vandal resistant mechanism for high reliability

Transit Recorders

I-PRO TRANSIT NETWORK VIDEO RECORDER

- Powered by the Intel® Core™ i7 Processor for high-speed performance
- Runs Windows® OS for optimal software compatibility
- Supports two 41T Ethernet connections

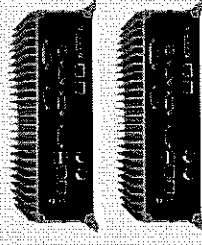
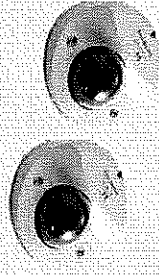
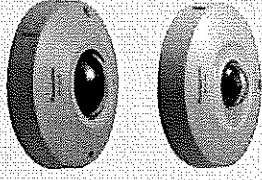
RECOMMENDED MOBILE RECORDER FOR BUS (VTC7101P)

Bring unrivaled computing power and exceptional video graphics handling into the bus with this rugged, mobile-ready recorder. With its ability to record and wirelessly transmit HD video from up to 16 four IP cameras up to 16 with an optional expansion slot(s), transit control rooms can be given complete situational awareness of the vehicle in real time.

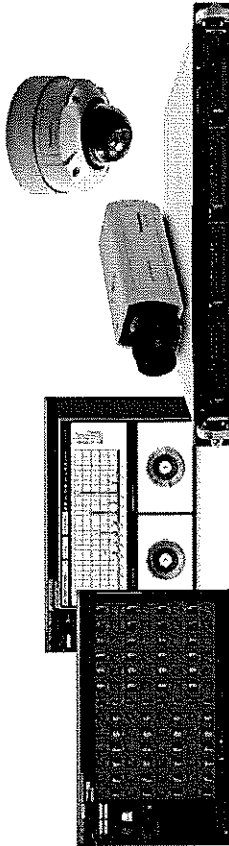
*This is a product from KESCOM Information Co., Ltd. Contact a sales representative to purchase it.

Panasonic

4K
ULTRA HD



WV-ASF900W—FacePro™



Windows® server-based face recognition and analytics platform featuring high-speed face searching and matching.

The WV-ASF900W FacePro™ Facial Recognition is a software solution and software engine that automatically performs verification of a person's face using live video streams or digital images from Panasonic i-PRO cameras to match against a database of enrolled faces and perform notification and alerting of face matches. Boosting a real-time processing capacity of up to 20 cameras per server, FacePro can execute high-speed searches of up to 1,000 registered reference faces on both live and recorded video, and each server can store up to 10 million detected face images depending on configuration.

For flexibility, reference face images can be registered from source video or imported via BMP, JPG and PNG files and can be searched for a match in a matter of seconds. FacePro also provides advanced age and gender analytics reporting and the ability to set flexible alarm triggers on matched faces using live cameras. The platform can support multiple simultaneous client sessions with Panasonic's WV-ASM200W and WV-ASM970W software applications.

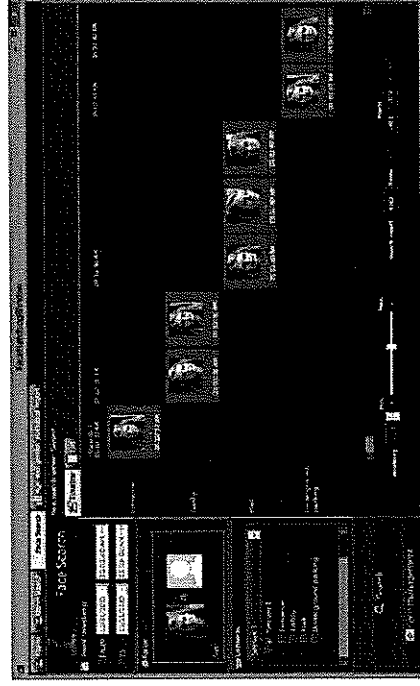
In addition to live-camera face matching, FacePro features the ability to perform searches and display face matches from a database of historical captured faces. Face match results are displayed for each camera in the system and in chronological order, enabling you to quickly track a person of interest moving through your facility. More refined face searching can be performed by specific camera or date.

How Do I Benefit from FacePro Facial Recognition?

It reduces costs by eliminating personnel to monitor entrances. It provides instant notification, and lowers your risk by retaining and preventing violent confrontations during capture, as well as by instantly alerting you of unwanted persons entering your facility. It's simple and easy to use and does not require physical contact and it's the only feasible solution to use with large crowds in your facility. In addition, it improves your service and sales potential by recognizing customers.

Panasonic

Its analysis capabilities permit you to count the number of detected faces and evaluate their age and gender, displaying the results on the screen as a statistical graph. This graphical view of a visitor's age and gender can be provided with a 15-minute, 30-minute, hourly, daily, weekly and monthly view for retail and marketing applications. This statistical data can be saved as a CSV file for analytical use.



- Fast multicamera face matching on both live and previously captured video
- Real-time processing capacity of up to 20 cameras* per server with a 10 million-face database capacity
- Enrollment of 1,000 "Known Faces" into "Watch Lists" for Instant Match Alerts
- High-speed search of video recordings based on reference faces (5 million captured faces searched in about 3 seconds)
- Utilizes Face Best-Shot option (SAE-ASF), available for Panasonic i-PRO cameras (WV-SP306, WV-SP305 and WV-SC305 models and WV-SPN631, WV-SPN631, WV-SPN531, WV-SPN311 models and WV-SFV631LT model)
- Flexible alarm triggers on matched faces using live cameras
- Requires ASM300/ASM200/ASM970 client software
- Ideal for Panasonic customers who have either WJ-ND400 or WJ-NV200/300 NVR

*12 Cameras or more require dual-ops FacePro server mode.

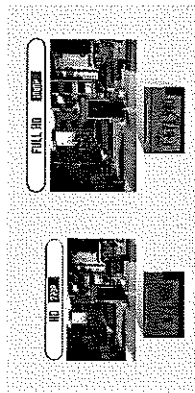
KEY BENEFITS OF PANASONIC VIDEO SURVEILLANCE CAMERAS

HIGH PICTURE QUALITY, HIGH SENSITIVITY

Providing natural looking, sharp video optimized for a wide range of installation environments and conditions.

HIGH RESOLUTION

The Panasonic F-PRO SmartHD Series of network cameras are high definition (HD) cameras capable of shooting video at Full HD (1,920 x 1,080), 960p (960 x 540) and HD (1,280 x 720). These cameras can record up to 60 images per second (60 fps), even at Full HD resolutions for the capture of exceptionally clear images of moving objects. The resolution, frame rate, and other parameters can be adjusted for the installation location and subject for obtaining the optimum settings for your specific environment.



Smart HD (Depth of Field)

The F-PRO SmartHD Series cameras are ideal for shooting in locations with depth. When recording areas with depth, such as straight passageways or wide spaces, the optimum image can be captured with focal points simultaneously at both the near and far ends of the image.

ENHANCED SUPER DYNAMIC

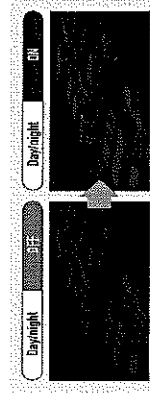
In installation environments with differences in brightness, the Super Dynamic (SD) function brightens dim areas with low visibility and reduces the brightness of areas where blown-out highlights can occur due to over-brightness, providing a natural image that is easy to view. In building entrances and similar locations, this enables the capturing of sharp images of people's faces as they enter from the outside when exposed to direct sunlight.

With the Super Dynamic (SD) function, the camera can be installed without worrying about lighting conditions that vary based on the time of day and season.



DAY/NIGHT AUTOMATIC MODE SWITCHING

In stores, warehouses, and other locations where it is bright during the day but dark at night, the camera can automatically determine the brightness of the area and record video under the optimum conditions. During nighttime hours, the camera automatically switches to black-and-white video for providing footage with high visibility.



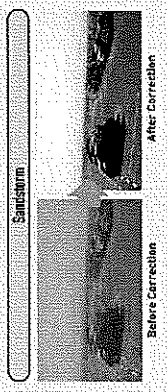
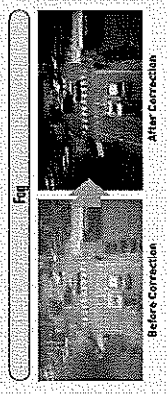
*Supported functions and specifications differ according to the model. See the specifications for each model.

Panasonic

IMAGE COMPENSATION

FOG / SANDSTORM COMPENSATION

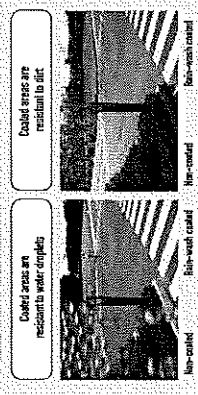
A full array of features are provided for optimum shooting in fog, sandstorms, and other hazy environments. Business due to fog or a sandstorm is automatically removed by this function providing clear, sharp video footage.



VISIBILITY ENHANCEMENT COATING

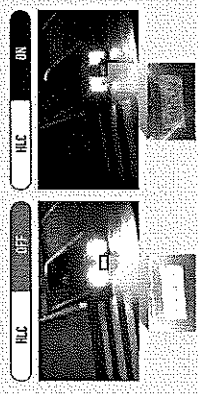
Water droplets from rain can adhere to the dome cover of the camera and hinder the shooting of clear images. In our Rain-Wash coated models, a special coating is applied so that water droplets are repelled allowing clear images to be recorded even during rainfall. This coating is also effective at repelling dirt so that cleaning of the dome cover is required less frequently.

*VX-S7001L, VV-S7001L, VV-S7001S, VV-S7001S-L, VV-S7001S-L, VV-S7001S-L



HIGH LIGHT COMPENSATION

For cameras installed at locations along roads or at entrances and exits to parking lots, the glare of headlights and other strong light sources shining into the camera lens can prevent the reading of license plates and surrounding areas. Enabling the HLC (High Light Compensation) function reduces the brightness of strong light sources and enhances the surrounding areas for optimum video recording.



STRONG LOW LIGHT PERFORMANCE IN COLOR

Monitoring is possible even in dim locations. Panasonic's proprietary technology enables high-sensitivity shooting that enables distinguishing of color hues even in dimly-lit locations.



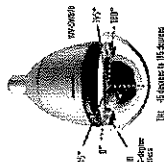
*Supported functions and specifications differ according to the model. See the specifications for each model.

MONITORING WITHOUT BLIND SPOTS

PTZ (Pan-Tilt-Zoom) cameras and omnidirectional cameras enable wide-area monitoring. Multiple cameras can be combined for more efficient monitoring and to eliminate blind spots.

PTZ CAMERA FOR WIDE RANGE MONITORING AND A HIGH ZOOM RATIO

Normal fixed lens cameras can only monitor in a certain direction, but the lens of a PTZ camera can be operated remotely to switch to the direction you want to view.
Detailed areas can also be zoomed in to a maximum of 90x. Since the cameras can be infinitely rotated 360 degrees at a high speed of 300 degrees/sec, you will not miss the subjects you want to monitor.



Advanced Auto Tracking

The pan, tilt, and zoom functions can be combined for automatically tracking the movement of a subject. If the tracked subject moves out of the camera's shoulder range, notification is sent to other cameras so that the tracking process can be carried on without interruption.



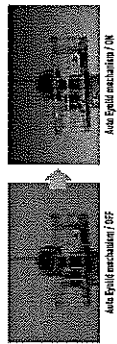
Preset Position / Preset Sequences

If the locations you want to monitor are fixed, you can register them in advance and move to them with a single touch or automatically period the registered locations. Data can be saved to a recorder when automatically panning the registered locations without intervention by an operator. Ranges that cannot be covered with a single fixed lens camera can be covered by panning.



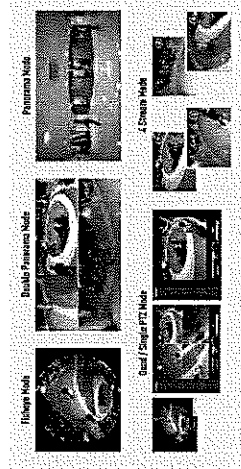
AUTO EYELET MECHANISM (AEM)

When the direction of the camera lens is tilted upward from the horizontal plane, the video image can appear distorted due to the distorting effect of the dome cover and other causes.
The Panasonic WV-SK555A uses an AEM function to reduce this image effect and provides shooting of images up to 15° upward from the horizontal plane. This allows the use of auto tracking and other functions over a wider movement range of the subject.



360-DEGREE MONITORING

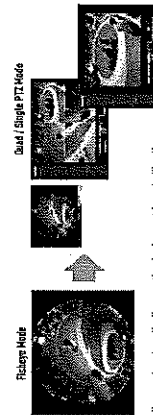
The 360-degree Network Camera can capture images around the camera lens in all directions.
Available modes include Fisheye, Double Panorama, Panorama, Quad PTZ, and 4-Split, and the camera can output video images based on the selected video mode for network transmission.



DE-WARPING

The 360-degree Network Camera can generate and output video images for each mode within the camera unit. Also, the Network Disk Recorder (NVR-ANR300) or i-PRO Management Software (NVR-ASX200) can be used on 360° omnidirectional images captured by Fisheye Mode. To convert to a format that is easier to view, each an fixed PTZ. Because the 360° omnidirectional video image is stored in the recorder, nothing is misread within the viewing area.

In addition, the area that you want to view can be selected using a controller or mouse to allow you to automatically move the viewing spot for monitoring the area. Even during panning, areas not visible in the screen are not missing in left or right. The Pan-Tilt of the 360-degree Network Camera does not use mechanical components and so provides a smooth movement without the mechanical noise that could adversely affect camera imaging.



SUPPORT FOR VARIOUS INSTALLATION ENVIRONMENTS

Panasonic network cameras are available in a full lineup of products custom-tailored for a wide range of installation environments. Their specialized design also helps to reduce the work required for installation.

SELECT THE SPECIALIZED MODEL FOR YOUR INSTALLATION ENVIRONMENT

Rainwater protection for outdoor installations

The outdoor models have a waterproof and dustproof structure that is rated IP66 for outdoor installation without requiring inspection in a special housing or other weatherproofing protection.



Temperature protection for outdoor installations

Models can be selected to match your specific installation conditions and can be installed in environments with temperatures ranging from +55°C to -50°C.
*The supported temperature range varies depending on the specific model.



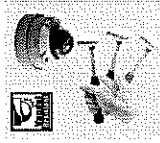
DEHUMIDIFICATION DEVICE

The network camera outdoor models have a built-in dehumidification device to lower the internal humidity for preventing condensation due to condensation. This eliminates blurry video images caused by condensation of the camera dome cover when installed in locations with high humidity or extreme temperature changes over the course of the day.



Vandal Resistant

When installed in locations that are prone to vandalism and tampering, measures are required for preventing damage to the camera.
Models featuring the Vandal Resistant mechanism are rated for installation in these types of locations.



VANDAL RESISTANT MECHANISM

Models featuring the Vandal Resistant mechanism include a shock absorber around the internal lens.
Even if the dome cover is subjected to a potentially damaging impact, the shock absorber will absorb this impact to protect the internal structure from damage.



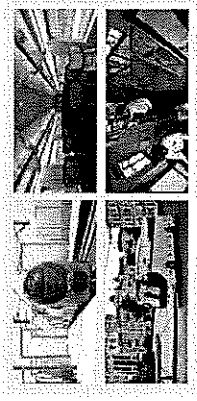
*Supported functions and specifications differ according to the models. See the specifications for each model.

SUPPORT FOR VARIOUS INSTALLATION ENVIRONMENTS (continued)

Panasonic network cameras are available in a full lineup of products custom-tailored for a wide range of installation environments. Their specialized design also helps to reduce the work required for installation.

Onward Model

A lineup of network cameras is also available with anti-vibration and other specific features for installation in cars, buses, and other vehicles. The WA-SR1314, WA-SR1114, WA-SR1544, WA-SR153, WA-SR154, and WA-SR148 are compliant with the EN50155 European railway standards.



Mount on the Outside of the Vehicle

The rugged mobile network camera WA-SR1114, WA-SR1115, and WA-SR1116 meets the United States Department of Defense Military Standards MIL-STD-883C to withstand even the harshest of environments. Also meeting the highest International Protection Standards (IP6K9K), the camera is dust and waterproof.

Placing such cameras allows the camera to be mounted on the outside of buses and trucks, which are constantly shaking and rattle on. The lenses' heat-treated surfaces allow the vehicle to be put through a wash. Capable of withstanding temperatures ranging from -40°C and up to +60°C (-40°F and up to 140°F), the camera is highly versatile.



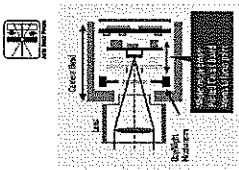
Reduced Installation Time

The 4-PIN Connect® Series cameras include a number of features to reduce the time required for installation.

If you want to change the camera direction after installation, the camera direction can be changed in 10° steps without removing the lens cap. (SR1, SR1, SR1 models.)

The dome cover can also be easily removed to change the direction of the lens.

For outdoor line type cameras (SR1 models), the stay can be bent to one of two levels to allow installation with a high degree of freedom.



ABF (Auto Back Focus)

The ABF feature automatically adjusts the image sensor position when changing from close to 6M sharp images. In addition, the one-push Auto Back Focus feature sharply reduces the time required to focus cameras during installation, allowing focus to be set using the optional system controller.

The ABF function can also automatically sense and adjust to slight focal length changes due to lens warping caused by temperature changes in the area where the camera is installed.

INTELLIGENT VIDEO MOTION DETECTION

The camera itself features intelligent functionality for notifying the administrator about changes to situations or dangers using a variety of methods. This eliminates the need to constantly watch the screen in the control room for reducing the TCO.

INTRUDER DETECTION

Crossing over the fence



Detects
-The motion of objects in the viewing direction area. Does not detect an object that is almost completely static in the viewing area. It is effective for detecting intruders.

DIRECTION DETECTION¹⁾

Objects moving in a specified direction



Detects
-Objects moving in a specified direction. The direction can be specified.
¹⁾ Type 1: Type 1: Area of detection is set by specifying the start and end points.

OBJECT DETECTION²⁾

Removed Object Detection



Detects
-Objects that are removed from the viewing area.
²⁾ Type 1: Type 1: Area of detection is set by specifying the start and end points.

LOITERING DETECTION

Objects staying longer than a specified time



Detects
-Objects staying in a specified area for a specified time. Type 1: Type 1: Area of detection is set by specifying the start and end points.

SCENE CHANGE DETECTION

Interference such as blockage of the lens with a cloth or spray paint



Detects
-Interference caused by blocking with the camera, such as a manual change in the camera direction or blockage of the lens with a cloth or spray paint.

CROSS LINE DETECTION¹⁾

A person who crosses the virtual line to the specified direction



Detects
-Objects that cross the virtual line to the specified direction.
¹⁾ Type 1: Type 1: Area of detection is set by specifying the start and end points.

ACTIONS WHEN AN ALARM IS DETECTED

Notification sent to the monitoring screen



Alarm notification sent to the recorder and WA-ASR100 management software



Alarm data is saved to the FTP server



Notification sent to the monitoring screen



Alarm notification sent to the recorder and WA-ASR100 management software



Alarm data is saved to the FTP server



Notification sent to the monitoring screen



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Notification sent to the monitoring screen



Alarm notification sent to the recorder and WA-ASR100 management software





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P&H 1105-1175

P&H 1105-1105

P&H 1105-1105

Appearance		 ONVIF 1.0 WPS-SC185 10/27/09	 ONVIF 1.0 WPS-SC184 10/27/09
Sensor	Video Output	1/3 MOS	
	H.264 multi stream	H.264 / MPEG-4 / JPE	
Cables and Transmission	IPFS multi stream	7	
	Smart Coding	6	
Misc. Resolution	16: 9	1280 x 720	
	4: 3	1280 x 960	
Misc. FPS	H.264	20 fps (1:3 MP)	
	IPFS	30 fps (1:3 MP)	
Super Dynamic / WDR / BLC		Super-9	
Day/Night		Yes (ICR)	
APR (Auto Back Focus) / Focus Assist		Auto Focus	
Color	Color (Frame up)	6.5 to 60% L	
	Color (Frame up)	0.01 to 100%	
Min. Illumination	B/W	0.01 to 0.01 L	
	B/W (Star up)	0.004 to 100%	
Lens	16: 9	6-4.2 to 84.6 mm, F1.8	
	4: 3	H: 3.2 to 55.2 deg; V: 1.2 to 31.5 deg; H: 3.2 to 55.2 deg; V: 2.4 to 62.1 deg;	
Pan	Range	H: 3.2 to 55.2 deg; V: 2.4 to 62.1 deg;	
	Speed	0 to 4380 deg/s	
Tilt	Range	300 degrees	
	Speed	-30 to +90 deg/s	
360 Pan-Tilt	Range	180 degrees	
	Speed	Yes	
Auto Tracking	Number of Preset Positions	14	
	Patrol	-	
Optical Zoom	Auto Tracking	Yes	
	Optical Zoom	18x	
Digital Zoom	Digital Zoom	12x	
	Yes (Video Motion Detection)	Yes (4-zones)	
VMS	1-PMP (Intelligent VMD) (with cascade software)	-	
	VMS	-	
Video Compression	In (Live)	14	
	In (Built-in MIC)	Yes	
Audio	Out	-	
	Codec	Yes	
Audio Reduction Alarm	Codec	G.711 / G.726	
	Audio Reduction Alarm	-	
SD memory Card	Start	Yes (SDHC)	
	Forward & After Playback	-	
External I/O	Audio REC	Yes (3T)	
	External I/O	Yes (4-in-1 jack)	
Weather Resistant	Weather Resistant	-	
	Water and Dust Resistance	-	
Temperature	Temperature	-14°F to +122°F	
Power Source	Power Source	117 W / PoE	
Disaggregation (voice)	Disaggregation (voice)	-	
Other Functions	Other Functions	-	
Mounting Options	Mounting Options	See pages 48, 49	

See pages 48, 49

See pages 48, 49

See pages 48, 49

[illegible]

Appearance	OWVF 100 WV-SFR331 40°FOV	OWVF 10 WV-SFR311A 40°FOV	OWVF 10 WV-SFR310A 40°FOV	OWVF 100 WV-SFR311 40°FOV
Size	120x100x100mm	120x100x100mm	120x100x100mm	120x100x100mm
Video Codes	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG
Audio	4-10W multi stream JPEG multi stream	4-10W multi stream JPEG multi stream	4-10W multi stream JPEG multi stream	4-10W multi stream JPEG multi stream
Color Coding	Yes	Yes	Yes	Yes
Max. Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Max. FPS	30fps (1080p)	30fps (1080p)	30fps (1080p)	30fps (1080p)
Optical Zoom	10x	10x	10x	10x
Super Dynamic / WDR / BLC	Enhanced SD	Enhanced SD	Enhanced SD	Enhanced SD
Day/Night	Yes (ICR)	Yes (ICR)	Yes (ICR)	Yes (ICR)
AEF (Auto Back Focus) / Focus Assist	AEF	AEF	AEF	AEF
Color	0.01 to 0.015	0.01 to 0.015	0.01 to 0.015	0.01 to 0.015
Color Temp. up	5000K to 6500K	5000K to 6500K	5000K to 6500K	5000K to 6500K
BW	0.01 to 0.015	0.01 to 0.015	0.01 to 0.015	0.01 to 0.015
SNR (Noise up)	30dB to 40dB	30dB to 40dB	30dB to 40dB	30dB to 40dB
Loss	1 to 2.5 to 5 mm, F1.6	1 to 2.5 to 5 mm, F1.6	1 to 2.5 to 5 mm, F1.6	1 to 2.5 to 5 mm, F1.6
Angular Field of View	4-10°	4-10°	4-10°	4-10°
Adjusting Angle	4-10°	4-10°	4-10°	4-10°
Optical Zoom	10x	10x	10x	10x
Digital Zoom	4x	4x	4x	4x
WDR (Wide Motion Detection)	Yes (4-in-1)	Yes (4-in-1)	Yes (4-in-1)	Yes (4-in-1)
I-Motion (Intelligent Motion Measurement algorithm)	Yes (Typical)	Yes (Typical)	Yes (Typical)	Yes (Typical)
WDR	Yes (4-in-1)	Yes (4-in-1)	Yes (4-in-1)	Yes (4-in-1)
Max. Connection	14	14	14	14
Audio	Yes	Yes	Yes	Yes
Audio In (Built-in MIC)	Yes	Yes	Yes	Yes
Audio Out	Yes	Yes	Yes	Yes
Audio Direction Alarm	Yes	Yes	Yes	Yes
SD	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)
Power Supply	Yes	Yes	Yes	Yes
SD memory Card	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)
External I/O	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)	Yes (SDHC)
Weather Protection	Yes (IP67)	Yes (IP67)	Yes (IP67)	Yes (IP67)
Material	Yes (IP67)	Yes (IP67)	Yes (IP67)	Yes (IP67)
Water and Dust Resistance	Yes (IP67)	Yes (IP67)	Yes (IP67)	Yes (IP67)
Power Source	12V DC / PoE	12V DC / PoE	12V DC / PoE	12V DC / PoE
Identification device	Yes	Yes	Yes	Yes
Other Functions	Yes	Yes	Yes	Yes
Mounting Options	See pages 44, 47	See pages 44, 47	See pages 44, 47	See pages 44, 47

Camera Type	Model	Resolution	Frame Rate	Field of View	Low Light Performance	Image Quality	Audio	Storage	Connectivity	Power	Weather Resistance	Mounting	Accessories
Smart	ONVIF 100 WW-SR631A HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631B HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631C HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631D HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631E HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631F HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631G HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631H HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631I HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631J HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631K HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631L HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631M HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631N HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631O HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631P HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631Q HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631R HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631S HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631T HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631U HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631V HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631W HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631X HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631Y HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter
Smart	ONVIF 100 WW-SR631Z HD720P	1296 x 960	30 FPS	120°	Yes	4K	Yes	16GB	Wi-Fi, Ethernet	5V 2A	IP67	Bracket	Power Adapter

Appearance	Onvif 1.0 WP-SPW371L 4x, 5000p	Onvif 1.0 WP-SPW371L HD 720P	Onvif 1.0 WP-SPW371L HD 720P	Onvif 1.0 WP-SPW371L HD 720P
Camera	1/3" MOS H.264 / JPE	1/3" MOS H.264 / JPE	1/3" MOS H.264 / JPE	1/3" MOS H.264 / JPE
Video Codec	H.264 multi stream	H.264 / JPE	H.264 / JPE	H.264 / JPE
Color and Transmission	4:3 Smart Coding	4:3 Smart Coding	4:3 Smart Coding	4:3 Smart Coding
Max. Resolution	3840 x 2160 2048 x 1536 1280 x 720	1920 x 1080 2048 x 1536 1280 x 720	1920 x 1080 2048 x 1536 1280 x 720	1920 x 1080 2048 x 1536 1280 x 720
Max. FPS	30fps (12 MP) 30fps (12 MP)	30fps (12 MP) 30fps (12 MP)	30fps (12 MP) 30fps (12 MP)	30fps (12 MP) 30fps (12 MP)
Super Dynamic / WDR / BLC	Enhanced SD	Enhanced SD	Enhanced SD	Enhanced SD
Daylight	Yes (DC)	Yes (DC)	Yes (DC)	Yes (DC)
APR (Auto Back Focus) / Focus Assist	APF	APF	APF	APF
Color	0.1 to 0.1 L	0.1 to 0.1 L	0.1 to 0.1 L	0.1 to 0.1 L
Color (Scene up)	0.001 to 1 (16)	0.001 to 1 (16)	0.001 to 1 (16)	0.001 to 1 (16)
IRW	0.1 to 0.1 (16)	0.1 to 0.1 (16)	0.1 to 0.1 (16)	0.1 to 0.1 (16)
B/W (Scene up)	1 to 2.8 to 10 mm, F1.3	1 to 2.8 to 10 mm, F1.3	1 to 2.8 to 10 mm, F1.3	1 to 2.8 to 10 mm, F1.3
Zoom	4x	4x	4x	4x
Angular field of view	16:9 4:3	16:9 4:3	16:9 4:3	16:9 4:3
Adjusting Angle	Yes	Yes	Yes	Yes
Optical Zoom	4x	4x	4x	4x
Digital Zoom	4x	4x	4x	4x
WDR (Wide Motion Detection)	Yes (4-axis)	Yes (4-axis)	Yes (4-axis)	Yes (4-axis)
WDR (Intelligent WDR) (Performance software)	Yes (Type2)	Yes (Type2)	Yes (Type2)	Yes (Type2)
WDR	Yes (4-axis)	Yes (4-axis)	Yes (4-axis)	Yes (4-axis)
Max. Connection	14	14	14	14
In (Built-in MIC)	Yes	Yes	Yes	Yes
Out	Yes	Yes	Yes	Yes
Codec	6.711 (6.724) / AAC	6.711 (6.724) / AAC	6.711 (6.724) / AAC	6.711 (6.724) / AAC
Audio Detection Alarm	Yes	Yes	Yes	Yes
Smart	Yes (SDC x 2)	Yes (SDC x 2)	Yes (SDC x 2)	Yes (SDC x 2)
Forward & Alarm Detection	Yes	Yes	Yes	Yes
Audio REC	Yes	Yes	Yes	Yes
SD memory Card	Yes (HAC)	Yes (HAC)	Yes (HAC)	Yes (HAC)
External IP	Yes (31~4)	Yes (31~4)	Yes (31~4)	Yes (31~4)
Weather and Dust Resistance	IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X
Temperature	-40°F to +122°F	-40°F to +122°F	-40°F to +122°F	-40°F to +122°F
Power Source	12V DC / PoE	12V DC / PoE	12V DC / PoE	12V DC / PoE
Other Functions	Built-in heater, Built-in IR LED	Built-in heater, Built-in IR LED	Built-in heater, Built-in IR LED	Built-in heater, Built-in IR LED
Mounting Options	See page 51	See page 51	See page 51	See page 51

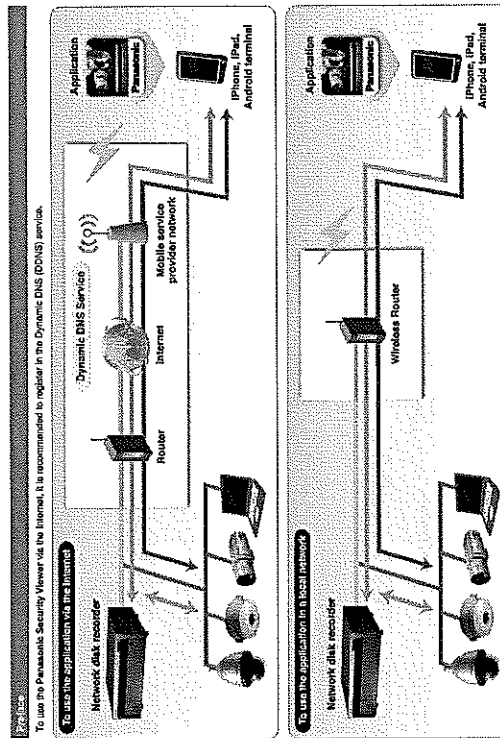
1) 1/3" Super resolution 1) 1/3" Super resolution 1) 1/3" Super resolution 1) 1/3" Super resolution

Appearance	Onvif 1.0 WP-SPW371L HD 720P	Onvif 1.0 WP-SPW371L HD 720P	Onvif 1.0 WP-SPW371L HD 720P	Onvif 1.0 WP-SPW371L HD 720P
Camera	1/3" MOS H.264 / JPE	1/3" MOS H.264 / JPE	1/3" MOS H.264 / JPE	1/3" MOS H.264 / JPE
Video Codec	H.264 multi stream	H.264 / JPE	H.264 / JPE	H.264 / JPE
Color and Transmission	4:3 Smart Coding	4:3 Smart Coding	4:3 Smart Coding	4:3 Smart Coding
Max. Resolution	3840 x 2160 2048 x 1536 1280 x 720	1920 x 1080 2048 x 1536 1280 x 720	1920 x 1080 2048 x 1536 1280 x 720	1920 x 1080 2048 x 1536 1280 x 720
Max. FPS	30fps (12 MP) 30fps (12 MP)	30fps (12 MP) 30fps (12 MP)	30fps (12 MP) 30fps (12 MP)	30fps (12 MP) 30fps (12 MP)
Super Dynamic / WDR / BLC	Enhanced SD	Enhanced SD	Enhanced SD	Enhanced SD
Daylight	Yes (DC)	Yes (DC)	Yes (DC)	Yes (DC)
APR (Auto Back Focus) / Focus Assist	APF	APF	APF	APF
Color	0.1 to 0.1 L	0.1 to 0.1 L	0.1 to 0.1 L	0.1 to 0.1 L
Color (Scene up)	0.001 to 1 (16)	0.001 to 1 (16)	0.001 to 1 (16)	0.001 to 1 (16)
IRW	0.1 to 0.1 (16)	0.1 to 0.1 (16)	0.1 to 0.1 (16)	0.1 to 0.1 (16)
B/W (Scene up)	1 to 2.8 to 10 mm, F1.3	1 to 2.8 to 10 mm, F1.3	1 to 2.8 to 10 mm, F1.3	1 to 2.8 to 10 mm, F1.3
Zoom	4x	4x	4x	4x
Angular field of view	16:9 4:3	16:9 4:3	16:9 4:3	16:9 4:3
Adjusting Angle	Yes	Yes	Yes	Yes
Optical Zoom	4x	4x	4x	4x
Digital Zoom	4x	4x	4x	4x
WDR (Wide Motion Detection)	Yes (4-axis)	Yes (4-axis)	Yes (4-axis)	Yes (4-axis)
WDR (Intelligent WDR) (Performance software)	Yes (Type2)	Yes (Type2)	Yes (Type2)	Yes (Type2)
WDR	Yes (4-axis)	Yes (4-axis)	Yes (4-axis)	Yes (4-axis)
Max. Connection	14	14	14	14
In (Built-in MIC)	Yes	Yes	Yes	Yes
Out	Yes	Yes	Yes	Yes
Codec	6.711 (6.724) / AAC	6.711 (6.724) / AAC	6.711 (6.724) / AAC	6.711 (6.724) / AAC
Audio Detection Alarm	Yes	Yes	Yes	Yes
Smart	Yes (SDC x 2)	Yes (SDC x 2)	Yes (SDC x 2)	Yes (SDC x 2)
Forward & Alarm Detection	Yes	Yes	Yes	Yes
Audio REC	Yes	Yes	Yes	Yes
SD memory Card	Yes (HAC)	Yes (HAC)	Yes (HAC)	Yes (HAC)
External IP	Yes (31~4)	Yes (31~4)	Yes (31~4)	Yes (31~4)
Weather and Dust Resistance	IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X	IP66 / NEMA 4X
Temperature	-40°F to +122°F	-40°F to +122°F	-40°F to +122°F	-40°F to +122°F
Power Source	12V DC / PoE	12V DC / PoE	12V DC / PoE	12V DC / PoE
Other Functions	Built-in heater, Built-in IR LED	Built-in heater, Built-in IR LED	Built-in heater, Built-in IR LED	Built-in heater, Built-in IR LED
Mounting Options	See page 51	See page 51	See page 51	See page 51

1) 1/3" Super resolution 1) 1/3" Super resolution 1) 1/3" Super resolution 1) 1/3" Super resolution

2015/12/22

By connecting a terminal to a 3G/4G or wireless LAN (Wi-Fi), it is possible to view live images from cameras and recorded images stored on recorders.



A PC is required to register a Dynamic DNS Service and configure the settings of the router.

- Download the Renaissance Society Viewer application on the Goodie Play™ store. Apple App Store, Google Play™ and Amazon Kindle Fire™.

Network disk recorder

- **Live images:** Live images from the network cameras connected to the recorder. Playing back recorded images: To play back the images stored on the recorder

Network camera

- * Network camera control*
(Resolution switchover, focus, panning/tilting, zoom, preset position switchover)
- * Depends on the network camera functions.

Outline of the application	
Application name	Panasonic Security Viewer™ version 2.1
OS	Android™ OS 4.0 is recommended.
How to get the application	Download from the Google Play™ store.
Date to start the service	End of June
Operation check terminals	Panasonic Toughpad FZ-A1, JT-B1, Galaxy S2, Galaxy S3, Galaxy S4

* Download the application from here-

Antrolin UK
Antrolin-Hemofiltration: a new hemofiltration mode

Outcome of the application	Application name	Panasonic Security Viewer version 2.1
OS	IDS S.I or later	
How to put the application	Download from the App Store.	
Date to start the service	End of June	
Operation check terminals	iPhone4, iPhone5, iPod touch 5th	

- Download the application from here.

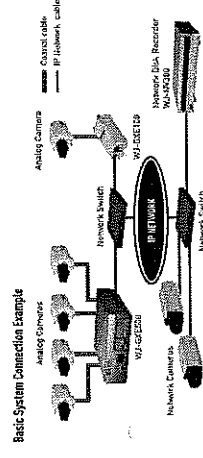
<http://security.nessus.org/tbase/security/ovsflow/index.html>

Easily migrate to an advanced IP system while still using the existing assets of your analog system

Executive Director

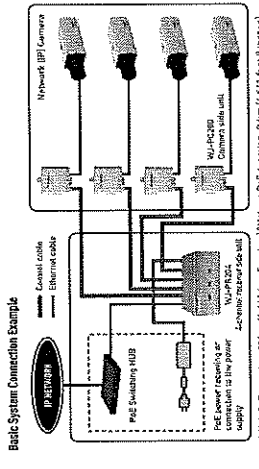
ENCODER

- Analog cameras can be connected to the IP network simply by connecting them to the encoder.
- A maximum of four analog cameras can be connected to the WA-8XE500.
- And one analog camera can be connected to the WA-8XE100.
- Video captured by analog cameras can be saved to a recorder installed on the IP network or the camera's own network cameras.



MAXIMIAN CONVERT

• The use of a table of variation in the previous section has been used for obtaining the reach of the β network.



Coaxial LAN cables can be used up to distances of 2 km. Power can also be supplied to PoE cameras for distances of up to 500 m. PoE+ cameras for distances of up to 200 m.

Network Video Decoder

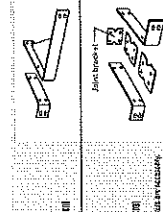
Multi Channel High Definition Video Decoder
WL-GXD400

- Up to 256 cameras, including cameras connected to the i-Pro Network.
- Video interface (NI-VIS550) is not required.
- 19" CRT monitor supports 1,024 x 1,000 pixel size.
- 14.725 MHz image rate. VGA images can be displayed in multiscan mode.
- Each of VGA images can be displayed at 25 frames/sec.
- Shared real-time calculation capability with an unburdened OS.
- Up to 64 camera groups can be registered and called up in response to power on.



Abstract

- [illegible]



Downloaded from <http://ajphaphysiol.physiology.org/> at University of California, San Diego on June 11, 2015

MALIC35W / MEUC635V / M7U635V / M8U635V / MCUC635V / ML1U635V / MN1U635W / M9U635W / ASE202W / ASE202W / ASE202W

- **WV-ASE201W:** Three monitors, system controller [WV-CU950] support
- **WV-ASE202W:** Max. 64 screen support

- **WV-ASE201W:** Three monitors, system controller [WV-CU950] support
- **WV-ASE202W:** Max. 64 screen support

- WV-ASE205W: Image compensation (Fog/Snow)

FACIAL RECOGNITION ANALYTICS PLATFORM

FACIAL RECOGNITION ANALYTICS PLATFORM RUNNING IN THE VIDEO SURVEILLANCE SYSTEM

- Add-on face matching function: Add the face matching function by simply adding the necessary devices and the software
- Up to 20 cameras can be connected to each server

FACE SEARCH

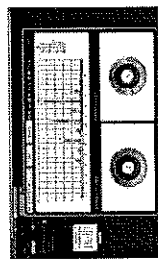
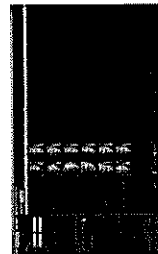
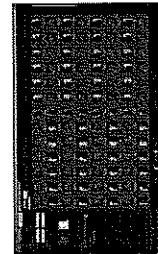
- Face images that the camera detects are stored and can be searched later
- By searching the face database, you can display the results of each camera in chronological order and find movement and location of persons
- Specify camera or date in detected face images and display the result in the list in similar order

FACE MATCHING

- When faces are matched with registered people, alarm of face matching is output in real time, and an alarm history is displayed in the list
- Double clicking on facial alarm notification can play back video segment on the control monitor

PEOPLE COUNTING. AGE

- Count people with detected faces and evaluate their age and gender
- Display the result on the screen with statistical graphs
- The statistical data can be saved as a CSV file for analytical use



NAVY-ASIAN

1-PRO MANAGEMENT SOFTWARE

- Supports 16:9 video stream and 16:4 HD monitor; displays 16:9 and 4:3 videos from IP cameras on the same screen
- 1,284 recording data in the SD/SIMC memory card can be downloaded
- Convert file format from MJPEG (proprietary format) to MP4 and WMV
- Up to 100 recorders, 64 encoders and 256 directly connected cameras can be registered
- Up to 6,400 cameras registered in the recorders and 256 cameras registered in the encoders are automatically registered in the WM-AS200W (the number of cameras on the recorder and encoder)

- Up to 16x 30 fps/camera images can be displayed in H.264 1.5 Mbps mode
- Fisheye image correction/de-warp
- Software License Products
 - WW-SAE100W: Face Detection X4L
 - WW-SAE200W: WHD

PARAPART: SYSTEM COMPONENTS

1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006, 2007-2008, 2009-2010, 2011-2012, 2013-2014, 2015-2016, 2017-2018, 2019-2020, 2021-2022, 2023-2024, 2025-2026, 2027-2028, 2029-2030, 2031-2032, 2033-2034, 2035-2036, 2037-2038, 2039-2040, 2041-2042, 2043-2044, 2045-2046, 2047-2048, 2049-2050, 2051-2052, 2053-2054, 2055-2056, 2057-2058, 2059-2060, 2061-2062, 2063-2064, 2065-2066, 2067-2068, 2069-2070, 2071-2072, 2073-2074, 2075-2076, 2077-2078, 2079-2080, 2081-2082, 2083-2084, 2085-2086, 2087-2088, 2089-2090, 2091-2092, 2093-2094, 2095-2096, 2097-2098, 2099-2100, 2101-2102, 2103-2104, 2105-2106, 2107-2108, 2109-2110, 2111-2112, 2113-2114, 2115-2116, 2117-2118, 2119-2120, 2121-2122, 2123-2124, 2125-2126, 2127-2128, 2129-2130, 2131-2132, 2133-2134, 2135-2136, 2137-2138, 2139-2140, 2141-2142, 2143-2144, 2145-2146, 2147-2148, 2149-2150, 2151-2152, 2153-2154, 2155-2156, 2157-2158, 2159-2160, 2161-2162, 2163-2164, 2165-2166, 2167-2168, 2169-2170, 2171-2172, 2173-2174, 2175-2176, 2177-2178, 2179-2180, 2181-2182, 2183-2184, 2185-2186, 2187-2188, 2189-2190, 2191-2192, 2193-2194, 2195-2196, 2197-2198, 2199-2200, 2201-2202, 2203-2204, 2205-2206, 2207-2208, 2209-2210, 2211-2212, 2213-2214, 2215-2216, 2217-2218, 2219-2220, 2221-2222, 2223-2224, 2225-2226, 2227-2228, 2229-2230, 2231-2232, 2233-2234, 2235-2236, 2237-2238, 2239-2240, 2241-2242, 2243-2244, 2245-2246, 2247-2248, 2249-2250, 2251-2252, 2253-2254, 2255-2256, 2257-2258, 2259-2260, 2261-2262, 2263-2264, 2265-2266, 2267-2268, 2269-2270, 2271-2272, 2273-2274, 2275-2276, 2277-2278, 2279-2280, 2281-2282, 2283-2284, 2285-2286, 2287-2288, 2289-2290, 2291-2292, 2293-2294, 2295-2296, 2297-2298, 2299-2300, 2301-2302, 2303-2304, 2305-2306, 2307-2308, 2309-2310, 2311-2312, 2313-2314, 2315-2316, 2317-2318, 2319-2320, 2321-2322, 2323-2324, 2325-2326, 2327-2328, 2329-2330, 2331-2332, 2333-2334, 2335-2336, 2337-2338, 2339-2340, 2341-2342, 2343-2344, 2345-2346, 2347-2348, 2349-2350, 2351-2352, 2353-2354, 2355-2356, 2357-2358, 2359-2360, 2361-2362, 2363-2364, 2365-2366, 2367-2368, 2369-2370, 2371-2372, 2373-2374, 2375-2376, 2377-2378, 2379-2380, 2381-2382, 2383-2384, 2385-2386, 2387-2388, 2389-2390, 2391-2392, 2393-2394, 2395-2396, 2397-2398, 2399-2400, 2401-2402, 2403-2404, 2405-2406, 2407-2408, 2409-2410, 2411-2412, 2413-2414, 2415-2416, 2417-2418, 2419-2420, 2421-2422, 2423-2424, 2425-2426, 2427-2428, 2429-2430, 2431-2432, 2433-2434, 2435-2436, 2437-2438, 2439-2440, 2441-2442, 2443-2444, 2445-2446, 2447-2448, 2449-2450, 2451-2452, 2453-2454, 2455-2456, 2457-2458, 2459-2460, 2461-2462, 2463-2464, 2465-2466, 2467-2468, 2469-2470, 2471-2472, 2473-2474, 2475-2476, 2477-2478, 2479-2480, 2481-2482, 2483-2484, 2485-2486, 2487-2488, 2489-2490, 2491-2492, 2493-2494, 2495-2496, 2497-2498, 2499-2500, 2501-2502, 2503-2504, 2505-2506, 2507-2508, 2509-2510, 2511-2512, 2513-2514, 2515-2516, 2517-2518, 2519-2520, 2521-2522, 2523-2524, 2525-2526, 2527-2528, 2529-2530, 2531-2532, 2533-2534, 2535-2536, 2537-2538, 2539-2540, 2541-2542, 2543-2544, 2545-2546, 2547-2548, 2549-2550, 2551-2552, 2553-2554, 2555-2556, 2557-2558, 2559-2560, 2561-2562, 2563-2564, 2565-2566, 2567-2568, 2569-2570, 2571-2572, 2573-2574, 2575-2576, 2577-2578, 2579-2580, 2581-2582, 2583-2584, 2585-2586, 2587-2588, 2589-2590, 2591-2592, 2593-2594, 2595-2596, 2597-2598, 2599-2600, 2601-2602, 2603-2604, 2605-2606, 2607-2608, 2609-2610, 2611-2612, 2613-2614, 2615-2616, 2617-2618, 2619-2620, 2621-2622, 2623-2624, 2625-2626, 2627-2628, 2629-2630, 2631-2632, 2633-2634, 2635-2636, 2637-2638, 2639-2640, 2641-2642, 2643-2644, 2645-2646, 2647-2648, 2649-2650, 2651-2652, 2653-2654, 2655-2656, 2657-2658, 2659-2660, 2661-2662, 2663-2664, 2665-2666, 2667-2668, 2669-2670, 2671-2672, 2673-2674, 2675-2676, 2677-2678, 2679-2680, 2681-2682, 2683-2684, 2685-2686, 2687-2688, 2689-2690, 2691-2692, 2693-2694, 2695-2696, 2697-2698, 2699-2700, 2701-2702, 2703-2704, 2705-2706, 2707-2708, 2709-2710, 2711-2712, 2713-2714, 2715-2716, 2717-2718, 2719-2720, 2721-2722, 2723-2724, 2725-2726, 2727-2728, 2729-2730, 2731-2732, 2733-2734, 2735-2736, 2737-2738, 2739-2740, 27




RESEARCH REPORT


















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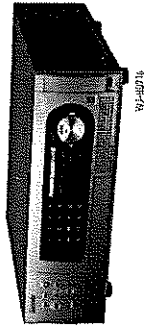
உதாரணமாக, பின்வரும் கருவிகள்:

Model	Indoor / Outdoor	Indoor	Outdoor	Indoor
Appearance				
Series		WV-CW5954A	WV-CW5954A	WV-C5584
Resolution		14" type electronic transfer CCD	14" type electronic transfer CCD	14" type electronic transfer CCD
Super Dynamic / WDR / BLC		650 TV lines	650 TV lines	650 TV lines
Day/Night		Super Dynamic / WDR / BLC	Super-D	Super-D
Focus Adjustment		Yes [DNR]	Yes [DNR]	Yes [DNR]
Build-in IR LED		Auto Focus	Auto Focus	Auto Focus
Video Illumination		—	—	—
Color		6.5 lx	6.5 lx	6.5 lx
Color (Sensitivity)		0.01 lx	0.01 lx	0.01 lx
IR		0.1 lx	0.1 lx	0.1 lx
IR (Sensitivity)		0.001 lx	0.001 lx	0.001 lx
Lens		1/2.3 to 119 mm, F1.4	1/2.3 to 119 mm, F1.4	1/2.3 to 119 mm, F1.4
Angular field of view		1/2.3 to 119 mm, F1.4	1/2.3 to 119 mm, F1.4	1/2.3 to 119 mm, F1.4
Adjusting Angle		360° endless	360° endless	360° endless
Optical Zoom		—	—	—
Electrical Zoom		—	—	—
Video Motion Detection		—	—	—
Video Intelligent WDR		—	—	—
Camera Bit (CCD)		—	—	—
External I/O		—	—	—
Visual Distortion		—	—	—
Water and Dust Resistance		—	—	—
Dehumidification device		—	—	—
Temperature		—55°F to +127°F	—55°F to +127°F	—41°F to +127°F
Power Source		24 V AC	24 V AC	24 V AC
Other Functions		WV-CW5954A: Rain wash coating	WV-CW5954A: Rain wash coating	WV-C5584: Rain wash coating
Options		Smoke Dome Cover WV-D121A	Smoke Dome Cover WV-D121A	Smoke Dome Cover WV-D121A
		Wall Mount Bracket WV-D121A	Wall Mount Bracket WV-D121A	Wall Mount Bracket WV-D121A
		Coating Mount Bracket WV-D121A	Coating Mount Bracket WV-D121A	Coating Mount Bracket WV-D121A
		Extended Ceiling Mount Bracket WV-D121A	Extended Ceiling Mount Bracket WV-D121A	Extended Ceiling Mount Bracket WV-D121A
		Periscope Mount Bracket WV-D121A	Periscope Mount Bracket WV-D121A	Periscope Mount Bracket WV-D121A
		Wall Mount Bracket WV-D118	Wall Mount Bracket WV-D118	Wall Mount Bracket WV-D118

OUTDOOR		INDOOR	
Appearance	      	    	    
Scanner	1/2 type lineare transfer CCD	1/2 type lineare transfer CCD	1/2 type lineare transfer CCD
Resolution	700 TV lines or more	450 TV lines	650 TV lines
Day/Night	Super-D Yes (ICR)	Super-D Yes (ICR)	Super-D Yes (ICR)
Focus Adjustment	AEF	Manual	AEF
Built-in IR LED	—	—	—
Color	0.08 lx	0.08 lx	0.08 lx
Color (Sens up)	0.002 lx	0.002 lx	0.002 lx
WDR	0.008 lx	0.008 lx	0.008 lx
SNR (Sens up)	0.0004 lx	0.0004 lx	0.0004 lx
Lens	1-3.3 to 4.0 mm, F1.4	1-2.8 to 11 mm, F1.4	1-2.8 to 19 mm, F1.4
Angular field of view	H: 33.4° (Fixed) to 74.5° (Wide) V: 25.5° (Fixed) to 55.7° (Wide)	H: 27.8° (Fixed) to 100.8° (Wide) V: 20.1° (Fixed) to 73.8° (Wide)	H: 27.8° (Fixed) to 100.8° (Wide) V: 20.7° (Fixed) to 73.8° (Wide)
Zoom	±17°	180° to ±17°	180° to ±17°
Adjusting Angle	±5°	±5°	±5°
Optical Zoom	2.1x	2.1x	2x
Digital Zoom	2x	Yes	Yes
Scene Change	Yes	Scene Change	Scene Change
Camera tilt (ICR)	Yes	Yes	Yes
External IR	—	—	—
Variable Resolution	ICR (400k/2.7x, var F1.5, 5.1)	—	—
Water and Dust Resistance	IP64	—	—
Deterioration device	—	—	—
Temperature	-14°F to +147°F -90°F to 40°F (Passive element heated)	±14°F to ±122°F	±14°F to ±122°F
Power Source	2x V AC or 12 V DC	2x V AC or 12 V DC	2x V AC or 12 V DC
Other functions	—	—	—
Smoke Dome Cover	Smoke Dome Cover WV-CHCSR	—	—
Bracket	Mount Bracket (for WV-CW634F) WV-Q1EA	Embedded Ceiling Mount Bracket (Sai-white) WV-Q17AB	Embedded Ceiling Mount Bracket (Sai-white) WV-Q17AB
Options	Embedded Ceiling Mount Bracket WV-Q1EA	—	—
Heater Unit	Heater Unit WV-CW6HA	—	—

CAMERA TYPE		SDC		SDC	
Indoor / Outdoor		INDOOR		OUTDOOR	
Appearance					
Sensor		1/2 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD
Resolution	Horizontal	650 TV lines	650 TV lines	650 TV lines	650 TV lines
Super Dynamic / WDR / BLC		BLC	BLC	BLC	BLC
Day/Night		Yes (Electrical)	Yes (ICR)	Yes (ICR)	Yes (ICR)
Focus Adjustment		Focus Assist	AF	AF	AF
Built-in IR LED		—	—	Yes (20 m)	Yes (30 m)
Min. Illumination	Color	0.01 lx	0.01 lx	0.01 lx	0.01 lx
	Color (Sense up)	0.0025 lx	0.0025 lx	0.0025 lx	0.0025 lx
	B/W	0.05 lx	0.05 lx	0.1 lx with IR LED	0.1 lx with IR LED
	B/W (Sense up)	0.001 lx	0.001 lx	—	—
Lens		1x 2.8 to 10 mm, F1.4	1x 2.8 to 10 mm, F1.4	1x 2.8 to 10 mm, F1.3	1x 2.8 to 10 mm, F1.3
Angular field of view	H: 27.4° (Full) to 103.3° (Wide)	H: 27.4° (Full) to 103.3° (Wide)	H: 27.4° (Full) to 103.3° (Wide)	H: 27.4° (Full) to 103.3° (Wide)	H: 27.4° (Full) to 103.3° (Wide)
	V: 20.7° (Full) to 73.5° (Wide)	V: 20.7° (Full) to 73.5° (Wide)	V: 20.7° (Full) to 73.5° (Wide)	V: 20.7° (Full) to 73.5° (Wide)	V: 20.7° (Full) to 73.5° (Wide)
	180° to 170°	180° to 170°	180° to 170°	180° to 170°	180° to 170°
	180° to 170°	180° to 170°	180° to 170°	180° to 170°	180° to 170°
Adjusting Angle		2.4x	2.4x	2.4x	2.4x
WDR (Wide Motion Detection)	Optical Zoom	2x	2x	2x	2x
	Digital Zoom	2x	2x	2x	2x
	Scene Change	Yes	Yes	Yes	Yes
	Scene Change	Yes	Yes	Yes	Yes
Camera I/O (ISD)		Yes	Yes	Yes	Yes
External I/O		—	—	—	—
Visual Protection		—	—	—	—
Water and Dust Resistance		—	—	—	—
Dehumidification device		—	—	—	—
Temperature		+15°F to +122°F	+15°F to +122°F	+15°F to +122°F	+15°F to +122°F
Power Source		24 V AC or 12 V DC	24 V AC or 12 V DC	24 V AC or 12 V DC	24 V AC or 12 V DC
Other Functions		—	—	—	—
Options	Smoke Alarm Cover	—	—	—	—
	Bracket	—	—	—	—
	Bracket	—	—	—	—
	Header Unit	—	—	—	—
Mounting Options		See pages 44, 47	See pages 44, 47	See pages 44, 47	See page 51

CAMERA TYPE		SDC		SDC	
Indoor / Outdoor		INDOOR		OUTDOOR	
Appearance					
Sensor		1/2 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type interline transfer CCD
Resolution	Horizontal	700 TV lines	650 TV lines	650 TV lines	650 TV lines
Super Dynamic / WDR / BLC		Super-D	Super-D	BLC	BLC
Day/Night		Yes (ICR)	Yes (ICR)	Yes (Electrical)	Yes (ICR)
Focus Adjustment		AF	Focus Assist	Focus Assist	Focus Assist
Built-in IR LED		—	—	—	—
Min. Illumination	Color	0.01 lx	0.01 lx	0.01 lx	0.01 lx
	Color (Sense up)	0.0025 lx	0.0025 lx	0.0025 lx	0.0025 lx
	B/W	0.08 lx	0.08 lx	0.08 lx	0.08 lx
	B/W (Sense up)	0.00025 lx	0.00025 lx	0.00025 lx	0.00025 lx
Lens		optional	optional	optional	optional
Angular field of view	—	—	—	—	—
	—	—	—	—	—
	—	—	—	—	—
	—	—	—	—	—
Adjusting Angle		—	—	—	—
WDR (Wide Motion Detection)	Optical Zoom	—	—	—	—
	Digital Zoom	2x	2x	2x	2x
	Scene Change	Yes	Yes	Yes	Yes
	Scene Change	Yes	Yes	Yes	Yes
Camera I/O (ISD)		Yes	Yes	Yes	Yes
External I/O		ALARM IN (OPT / ALARM) / WDR ALARM OUT (OPT / ALARM) / WDR	Alarm IN (Opt. Alarm Out) / Opt.	—	—
Visual Protection		—	—	—	—
Water and Dust Resistance		—	—	—	—
Dehumidification device		—	—	—	—
Temperature		+15°F to +122°F	+15°F to +122°F	+15°F to +122°F	+15°F to +122°F
Power Source		WV-CF354: 120 V AC WV-CF344: 12 V DC or 24 V AC	WV-CF354: 120 V AC WV-CF344: 12 V DC or 24 V AC	WV-CF354: 120 V AC WV-CF344: 12 V DC or 24 V AC	WV-CF314L: 120 V AC WV-CF314L: 12 V DC or 24 V AC
Other Functions		—	—	—	—
Options	Smoke Alarm Cover	—	—	—	—
	Bracket	—	—	—	—
	Bracket	—	—	—	—
	Header Unit	—	—	—	—
Mounting Options		See page 51	See page 51	See page 51	See page 51



WJ-HD716 (120V AC: NTSC)
16 CH REAL-TIME H.264 DIGITAL DISK RECORDER

WJ-HD616 (120V AC: NTSC)
16 CH H.264 DIGITAL DISK RECORDER

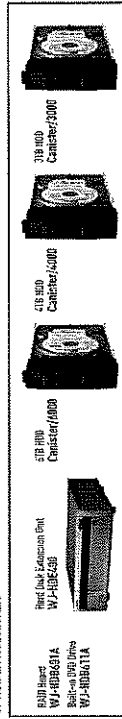
WJ-HD716

SD5 Link
Super Dynamic

HDMI **uniphier**
HDMI 1.3a compliant

- Dual HDMI Full HD 1080i (1920 x 1080) display
- H.264 (high-profile) codec reduces bandwidth by up to 40% compared with MPEG-4
- SD5 Link (Super Dynamic 5 Link) with intelligent Video Motion Detection (I-VMD) alarm
- Real-time recording (WJ-HD716) and 16CH 2x multipliers real-time live
- Up to 31 HDD slots with four HDD slots in the main unit and three WJ-HD500 optional extension units, each with nine HDD slots

OPTIONAL ACCESSORIES

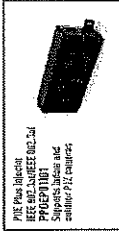


RAID Expansion Unit
WJ-HD500

3TB HDD
Canister/5000

4TB HDD
Canister/6000

5TB HDD
Canister/8000

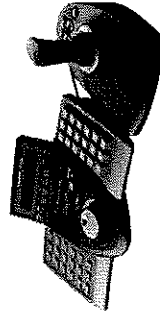


PIE Plus Remote
EEC-MC-AN-RECE-002-241
PP16P71101
Supports linear and
satellite TV channels














WV-CU950
ETHERNET SYSTEM CONTROLLER
WITH 3D-JOYSTICK AND JOG/SHUTTLE














- For smooth operation of Ethernet/IP data interface devices, WV-AS100/WV-AS270 and System500 System500 System500 (WJ-S1150A version 2.0 or higher)
- Integrated system control: camera, recorder and switcher
- User-level management and user-assignable buttons
- Universal design for right- or left-handed users




























WV-CU650
RS-485 SYSTEM CONTROLLER WITH
3D-JOYSTICK AND JOG/SHUTTLE











- For smooth operation of RS data interfaced devices and System500 System500 (WJ-S1150A version 2.0 or higher)
- Integrated system control: camera, recorder and switcher
- User-level management and user-assignable buttons
- Universal design for right- or left-handed users







CAMERA ACCESSORIES				
MODEL	DESCRIPTION/TYPE	COMPATIBILITY	IMAGE	
WV-CF55A	Smoke Dome	WV-SFM31U/611L WV-SFM10M/311A, WV-SFM331		
WV-CS45	Smoke Dome	WV-CS84		
WV-CS55C	Clear Dome	WV-SL58A, WV-SL307A		
WV-CS55	Smoke Dome	WV-SL58A, WV-SL307A		
WV-CR15	Smoke Dome	WV-SFR31U/611L WV-SFR10M/311A, WV-SFR331		
WV-CW6C	Clear Dome	WV-WM50S, WV-CW604S, WV-CW44S/524S		
WV-CW4SA	Smoke Dome	WV-WM50S, WV-CW434S, WV-CW44S/524S		
WV-CW7S	Smoke Dome	WV-SFM31U/611L/611L WV-SFM10M/311A, WV-SFM331		
WV-CW6SA	Smoke Dome	WV-SWT53/155/155MA/152/152M, WV-SF138/135/132		
WV-Q7118	Extended Shade Cover	WV-SFM31U/611L/611L WV-SW33X, WV-SW30X, WV-SF138/131, WV-SF331		
WV-CW5HA	Optional Header	WV-CW434S/WV-CW44S/524S		

HOUSING AND MOUNTING BRACKETS FOR DOME CAMERAS									
					CAMERA TYPE				
					OUTDOOR VANDAL		INDOOR DOME		
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-CR15/15/15MA/152/152M, WV-SF138/135/132	WV-SFM31U/611L, WV-SFM10M/311A, WV-SFM331	WV-CS45, WV-CS55C	WV-SL58A, WV-SL307A	WV-SFR31U/611L, WV-SFR10M/311A, WV-SFR331	WV-CW434S, WV-CW44S/524S	WV-CW604S, WV-CW434S/524S
WV-Q169A		Indoor Embedded Ceiling Mount Bracket	Yes		Yes				
WV-Q174B		Indoor Embedded Ceiling Mount Bracket							Yes (Except WV-C314J)
PRCM1		Indoor Embedded Ceiling Mount Bracket	Yes		Yes				Yes
PPM51		Indoor Pendant Mount Housing, Black							Yes (Except WV-SF331J/611J)
PPM51B		Indoor Pendant Mount Housing, Beige							Yes (Except WV-SF331J/611J)
PS484S		Outdoor Vandal-resistant Shroud	Yes	Yes	Yes				
PPM484S		Outdoor Vandal-resistant Pole Mount	Yes	Yes	Yes				
PCM484S		Outdoor Vandal-resistant Corner Mount	Yes	Yes	Yes				
PHM484S		Outdoor Vandal-resistant Hanging Mount	Yes	Yes	Yes				
PWM484S		Outdoor Vandal-resistant Wall Mount	Yes	Yes	Yes				
WV-Q7118		Outdoor Extended Sun Shade	Yes	Yes	Yes				
WV-Q124		Outdoor Shroud Bracket requires WV-Q122A	Yes	Yes	Yes				
PWM781		Outdoor Wall Mount & Shroud					Yes		


















HOUSING AND MOUNTING BRACKETS FOR INDOOR PTZ CAMERAS					CAMERA TYPE	
					PTZ	
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-SC588A/WV-SC387A	WV-SC384/WV-SC385	WV-CS584	
WV-Q117		Indoor/Pendant Suspended Ceiling Mount Silver			Yes	
WV-Q118B		Indoor/Wall Wall Mount Bracket Silver			Yes	
WV-Q119		Indoor/Wall Wall Mount Bracket White	Yes			
WV-Q126 WV-Q126A		Indoor/Ceiling Embedded Ceiling Mount Bracket	Yes (WV-Q126A)		Yes	
WV-Q154C		Indoor/Wall Wall Mount Bracket Clear Dome		Yes		
WV-Q154S		Indoor/Wall Wall Mount Bracket Smoke Dome		Yes		
WV-Q155C		Indoor/Ceiling Embedded Ceiling Mount Bracket Clear Dome		Yes		
WV-Q155S		Indoor/Ceiling Embedded Ceiling Mount Bracket Smoke Dome		Yes		
WV-Q156C		Indoor/Ceiling Ceiling Mount Bracket Clear Dome		Yes		
WV-Q156S		Indoor/Ceiling Ceiling Mount Bracket Smoke Dome		Yes		
WV-Q157		Inner Dome Cover		Yes		
PISMSV		Indoor/Pendant/Clear 12" Indoor Vandal-Resistant Housing		Yes		
PIDV7CN		Indoor/Ceiling/Vandal 7" Indoor Bypassed Ceiling Housing with Clear Dome	Yes	Yes		Yes

HOUSING AND MOUNTING BRACKETS FOR INDOOR PTZ CAMERAS (CONT.)					CAMERA TYPE	
					PTZ	
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-SC588A/WV-SC387A	WV-SC384/WV-SC385	WV-CS584	
PIDV7SN		Indoor/Ceiling/Vandal 7" Indoor Bypassed Ceiling Housing with Smoke Dome	Yes		Yes	
PDM9		Indoor/Ceiling 9" Indoor Bypassed Ceiling Housing (Dome not included)			Yes	
PID9		Indoor/Ceiling 9" Indoor Bypassed Ceiling Housing (Dome not included)	Yes		Yes	
POSMSV		Outdoor/Ceiling - 5" Outdoor Vandal-Resistant Housing 24V AC to 12V DC Converter			Yes	
PDDV9CPTA		Outdoor/Pendant - 9" Outdoor Vandal-Resistant Dome Housing with Pendant Mount - Clear/HB	Yes		Yes	
PDDV9CWTA		Outdoor/Wall - 9" Outdoor Vandal-Resistant Dome Housing with Wall Mount - Clear/HB	Yes		Yes	
PDD9CA		Outdoor/Pendant - 9" Outdoor Dome Housing with Pendant Mount Silver - Clear/HB	Yes		Yes	
PDD9CWA		Outdoor/Wall - 9" Outdoor Dome Housing with Wall Mount Silver - Clear/HB	Yes		Yes	
PDD9CTA		Outdoor/Pendant - 9" Outdoor Dome Housing with Pendant Mount White - Clear/HB	Yes		Yes	
PDD9CWTA		Outdoor/Wall - 9" Outdoor Dome Housing with Wall Mount White - Clear/HB	Yes		Yes	
PPFD9C		Outdoor/Pendant - 9" Outdoor Pressurized Dome Housing for Analog Camera - Clear/HB			Yes	
PPFD9CN		Outdoor/Pendant - 9" Outdoor Pressurized Dome Housing for Network Camera - Clear/HB	Yes	Yes		Yes










HOUSING AND MOUNTING BRACKETS FOR OUTDOOR PTZ CAMERAS					CAMERA TYPE	
					PTZ	
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-SW598A/ WV-SW397B	WV-SW395A	WV-CW594A	
PPRM30G		Outdoor Parapet Mount Short, Black	Yes	Yes	Yes	
PPRM30GB		Outdoor Parapet Mount Short, Beige	Yes	Yes	Yes	
PWM30G		Outdoor Parapet Mount Long, Black	Yes	Yes	Yes	
PWM30GB		Outdoor Parapet Mount Long, Beige	Yes	Yes	Yes	
PWM20G		Outdoor Gooseneck Wall Mount, Black	Yes	Yes	Yes	
PWM20GB		Outdoor Gooseneck Wall Mount, Beige	Yes	Yes	Yes	
PWM20GS		Outdoor Gooseneck Wall Mount, Silver	Yes	Yes	Yes	
PSRCW2000B		Outdoor Parapet Roofing Mount, Black	Yes	Yes	Yes	
WV-0122A		Outdoor Wall Mount Bracket	Yes	Yes	Yes	
WV-0121		Outdoor Ceiling Mount Bracket	Yes	Yes	Yes	

HOUSING AND MOUNTING BRACKETS FOR OUTDOOR PTZ CAMERAS (CONT.)					CAMERA TYPE	
					PTZ	
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-SW598A/ WV-SW397B	WV-SW395A	WV-CW594A	WV-SUD43B
PB24B		Outdoor Heavy Duty Junction Box	Compatible with PPM20G series, PPM43B	Compatible with PPM20G series, PPM43B	Compatible with PPM20G series, PPM43B	Compatible with PPM20G series, PPM43B
PACA4 PACA4B		Outdoor Corner Mount Monitor Rack-Black, HCA4B-Beige	Compatible with PPM20G series, WV-0122A, WV-SW000 series, PPM43B	Compatible with PPM20G series, WV-0122A, WV-SW000 series, PPM43B	Compatible with PPM20G series, WV-0122A, WV-SW000 series, PPM43B	Compatible with PPM20G series, WV-0122A, WV-SW000 series, PPM43B
PAPM4 PAPM4B		Outdoor Pole Mount Adaptor PPM4-Black, PPM4B-Beige	Compatible with PPM20G series, WV-0122A, WV-SW000 series, PPM43B	Compatible with PPM20G series, WV-0122A, WV-SW000 series, PPM43B	Compatible with PPM20G series, WV-0122A, WV-SW000 series, PPM43B	Compatible with PPM20G series, WV-0122A, WV-SW000 series, PPM43B
PAPM6		Outdoor VEU/Pole Mount Adaptor	Compatible with PPM20G series, PPM43B	Compatible with PPM20G series, PPM43B	Compatible with PPM20G series, PPM43B	Compatible with PPM20G series, PPM43B
PPMF12D		Outdoor Pendant Mount	Yes	Yes	Yes	No
PWM63B		Outdoor Wall Mount Bracket	No	No	No	Yes








HOUSING AND MOUNTING BRACKETS FOR FIXED CAMERAS

		CAMERA TYPE			
		FIXED			
MODEL NO.	PICTURE	DESCRIPTION/TYPE	 WV-SPW701L  WV-SPW631  WV-SPW31	 WV-SPW31	 WV-SPW31
WY-Q120A		Outdoor Adapter Box	Included (Except WV-SP-W31AL/331AL)	WV-SPW31/31A WV-SPW631 WV-SPW31AL/331AL	WV-SPW31/31A WV-SPW631 WV-SPW31AL/331AL
PUM8		Indoor/Wall Universal Camera Mount (Max. Weight 3 lbs.)	Yes	Yes	Yes
POD8CF		Outdoor/Pendant 8" Outdoor Dome Housing for Fixed Camera with Pendant Mount - Clear/Black	Yes	Yes	Yes
POD8CWF		Outdoor/Wall 8" Outdoor Dome Housing for Fixed Camera with Wall Mount - Clear/Black	Yes	Yes	Yes
POH1100		Outdoor/Wall 10" Outdoor Housing Wall Mount Included			Yes
POH1100HB		Outdoor/Wall 10" Outdoor Housing with Heater and Blowers Wall Mount Included - HB			Yes
POH1100NWE		Outdoor/Wall 10" Outdoor Housing with Heater and Blowers Plus Wall Mount Included - HB	Yes	Yes	
POH1100NWH		Outdoor/Wall 10" Outdoor Housing with Heater and Blowers with Peltier Plus with Medium Wall Mount Included - HB	Yes	Yes	
PACA4 PACA4B		Outdoor Pole Mount Adapter PAPA4-Black, PAPA4B-Beige	Yes		
PAPM4 PAPM4B		Outdoor Pole Mount Adapter PAPA4-Black, PAPA4B-Beige	Yes		
NEW PERV1000		Indoor/Corner Elevation Housing Beadless Steel/Tempered Glass Vandal			
NEW PERV1000SFN130		Indoor/Corner Elevation Housing Beadless Steel/Tempered Glass Vandal Includes WV-SF130 camera			










VARIFOCAL LENSES FOR HD CAMERAS

SIZE	MODEL NO.	PICTURE	COMPANY	FOCAL LENGTH (MM)	APERTURE RATIO @ WIDE	AUTO IRIS	 WV-SPN31/31A  WV-SPN31
1/3"	PLAMP2206		Fujinon	2.2-6.0	F1.3	Yes	Yes
1/3"	PLAMP2406		Tamron	2.4-6.0	F1.2	Yes	Yes
1/3"	PLAMP2808		Fujinon	2.8-8.0	F1.2	Yes	Yes
1/3"	PLAMP2812		Fujinon	2.8-12.0	F1.4	Yes	Yes
1/2"	PLAMP0722		Ricon	7.0-22.0	F1.4	Yes	Yes
1/3"	PLAMP0550		Tamron	5.0-50.0	F1.4	Yes	Yes
1/3"	PLZ15/33		Fujinon	15.0-50.0	F1.5	Yes	Yes











M1/2 LENSES FOR HD CAMERAS

SIZE	MODEL NO.	PICTURE	COMPANY	FOCAL LENGTH (MM)	APERTURE RATIO @ WIDE	AUTO IRIS	 WV-SF130/  WV-SF130/  WV-SF130
1/3"	PLW12MP028/1		Evidar	2.8	F2.0	No	Yes
1/3"	PLW12MP060/1		Evidar	6.0	F1.8	No	Yes
1/3"	PLW12MP120/1		Evidar	12.0	F1.8	No	Yes
	PLW12MP019/1		Sunny	1.95	F2.2	No	Included

VARIOFocal LENSES FOR SD CAMERAS

SIZE	MODEL NO.	PICTURE	COMPANY	FOCAL LENGTH (MM)	APERTURE RATIO @ WIDE	AUTO IRIS	WV-CW634 SERIES	WV-CP300 SERIES WV-CW300 SERIES WV-CP300 SERIES
1/2"	PLAHS1770		Fujinon	7.0-70.0	F1.8	Yes		
1/3"	WV-LZA61/2S		Panasonic	3.8-6.0	F1.4	Yes		Yes
1/3"	WV-LZ62/BS		Panasonic	5.0-40.0	F1.6	Yes		Yes
1/3"	PLA22T3DN		Tamron	2.2	F1.2	Yes	Yes	Yes
1/3"	PLZ27/5DN		Fujinon	2.7-13.5	F1.3	Yes		Yes
1/3"	PLZ29/27		Fujinon	2.9-8.0	F0.95	Yes	Yes	Yes
1/3"	PLZ5/10		Fujinon	5.0-50.0	F1.6	Yes		Yes
1/3"	PLZ15/33		Fujinon	15.0-50.0	F1.5	Yes	Yes	Yes
1/3"	PLZ20/5		Tamron	20.0-100.0	F1.6	Yes		Yes








READY-TO-GO PACKAGES

	CAMERA	LENS	HOUSING
	WV-CW634F		
	WV-CW634F/09	PLAMP0722 7-22mm	Housing
	WV-CW634F/15	PLZ15/33 15-50mm	Factory Flush Mount
	WV-CW634F/22	PLAMP2203 2.2-4mm	Factory Flush Mount
	WV-CW634S	PLAMP0722 7-22mm	Factory Surface Mount
	WV-CW634S/09	PLAMP0722 7-22mm	Factory Surface Mount
	WV-CW634S/15	PLZ15/33 15-50mm	Factory Surface Mount
	WV-CW634S/22	PLAMP2203 2.2-4mm	Factory Surface Mount

READY-TO-GO PACKAGES (CONT.)

	CAMERA	LENS	HOUSING
			
POC314L2	WA-CP314	PLAMP2812 2.8-12mm	Housing
POC314L5	WA-CP314	PLZ5719 5.0-50mm	POH100BH
POC634L2	WA-CP314	PLAMP2812 2.8-12mm	POH100BH
POC634L5	WA-CP314	PLZ5719 5.0-50mm	POH100BH
POCSPN311L2	WA-SPN311A	PLAMP2812 2.8-12mm	POH100BH
POCSPN311L5	WA-SPN311A	PLAMP0550 5.0-50mm	POH100BH
POCSPN311MP05	WA-SPN311	PLAMP0550 5.0-50mm	POH100BH
POCSPN311MP24	WA-SPN311	PLAMP2466 2.4-6.0mm	POH100BH

MONITORS

MODEL	TYPE	INFO	IMAGE	DESCRIPTION	COMPATIBLE WITH
PLCD9C	Monitors	LCD Monitors		9" LCD monitor, 800 x 600	
PLCD9C/2	Monitors	LCD Monitors		2-9" LCD monitor, 800 x 600 with rack mount	
PLCD15V	Monitors	LCD Monitors		15" LCD monitor, 1024 x 768, 4:3 aspect ratio, two built-in speakers, 2x BNC input, S-Video input/output, RGB input	
PLCD19P	Monitors	LCD Monitors		19" LCD, 1280 x 1024, 5:4 aspect ratio, two built-in speakers, 2x BNC input, S-Video input/output, RGB input, DVI input, DVI output	
PLCD24HDA	Monitors	LCD Monitors		24" Full HD LCD, 1920 x 1080, 16:9 aspect ratio, two built-in speakers, 2x BNC input, S-Video input/output, RGB input, DVI input, HDMI input	
PLCD27HDA	Monitors	LCD Monitors		27" Full HD LED, 1920 x 1080, 16:9 Aspect Ratio, two built-in speakers, 2x BNC input, S-Video input/output, DVI input, HDMI input	
PLCD42HDA	Monitors	LCD Monitors		42" Full HD LED, 1920 x 1080, 16:9 aspect ratio, two built-in speakers, 2x BNC input, S-Video input/output, DVI input, HDMI input, pedestal stand	
PRMK08	Monitors	Accessories	Image Not Available	Rack mount kit for PLCD15V, PLCD19P monitors	PLCD15V PLCD19P

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Panasonic

Your Full-service Partner in Surveillance

Transforming surveillance system solutions from concept to completion requires the utmost attention to detail throughout every phase of the process. You can trust Panasonic to be your single-source provider for all your facility's needs, from system design to installation to post-implementation support. Offering seamless integration, superior cost efficiency and increased ROI, we will configure your surveillance system to best fit your requirements and budget, while offering a fully integrated solution with the best third-party partners in the business. Plus, Panasonic's product warranty and service network ensure your system will continually perform to its highest expectations for years to follow.

Panasonic Security Services

Design and Build

- Needs assessment
- Hardware and software
- System design
- Customer training
- Third-party integration

Installation Support with Trusted Partners

- On-site / remote technical support

System Implementation with SI Partners

Post-implementation Support

- Extended warranties are available

FOR TECHNICAL SUPPORT

1.800.528.6747

psditech@us.panasonic.com

FOR SERVICE PARTS

1.847.888.7000

Heartland Services
1615 Dundee Ave., Dock G
Elgin, IL 60120-1620

FOR MORE INFORMATION, CONTACT US

1.877.803.8492

us.panasonic.com/security
B2BSales@us.panasonic.com

VI Monitor Plus

Key Features

Panasonic

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

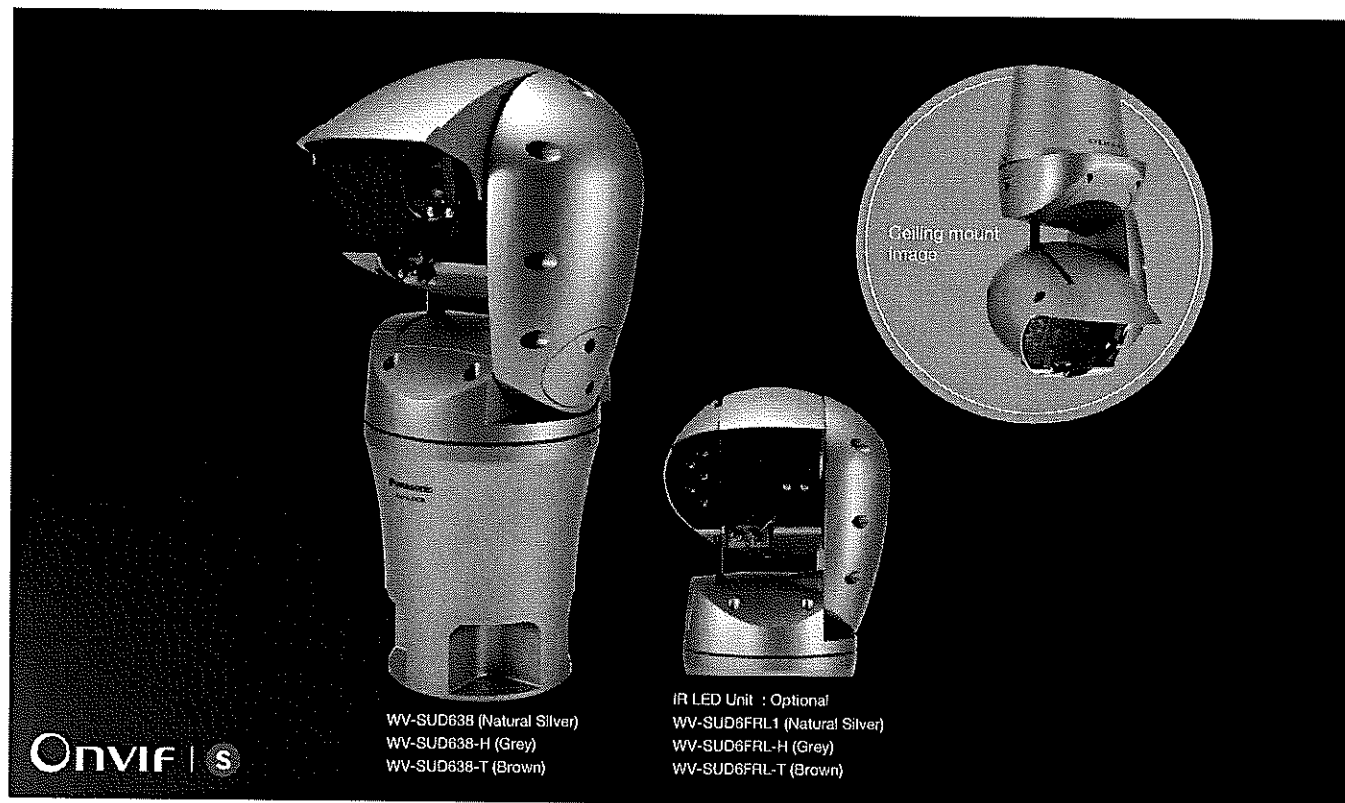
- Simple Per camera licensing structure, available in single camera increments.
- No extra licensing costs for client applications, or annual maintenance fees.
- No base or server license fees when using genuine Video Insight servers.
- Individual camera's MAC address not required for easy servicing 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 Advitia 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 | • RBH Axiom V(AX5) | • Isonas |
| • MonitorCast4.X | • Gallagher | • AMAG |
| • Badge Pass | • Open Options | • DSX |
| • Wren Solutions | • Infinias | • RS2 |
| • Paxton | • Lenel | • S2 |
| • Sureview | • Secure | •Blackboard |
| • IMRON | • Continental | •Software House |



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

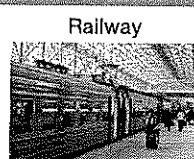
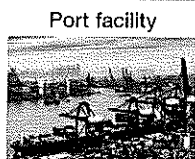
Key Feature

- 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



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
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
Image Resolution		*2 mega pixel [16 : 9] (60 fps mode / 30 fps mode)
H.264		H.264 : Minimum 1,920 x 1080
JPEG (MJPEG)		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, VIOS (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	IPv8 : 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, RTSP/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	Main body : IP65, 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)
	Power source	AC100 to 240 V, 50 Hz / 60 Hz Tested PoE Injector* (80 W) with limitations
General	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 monoaural mini jack Input impedance : Approx. 2 kΩ (unbalanced) Input level : Approx. -10 dBV
	For line input	
	Audio output	ø3.5 mm stereo mini jack (monoaural 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-SUD838 : Natural Silver WV-SUD838-H : Gray (N7) WV-SUD838-T : Brown (Environmental color) Front glass : Glass, Clear

*1 Super Dynamic function is automatically set off on 60 fps mode.

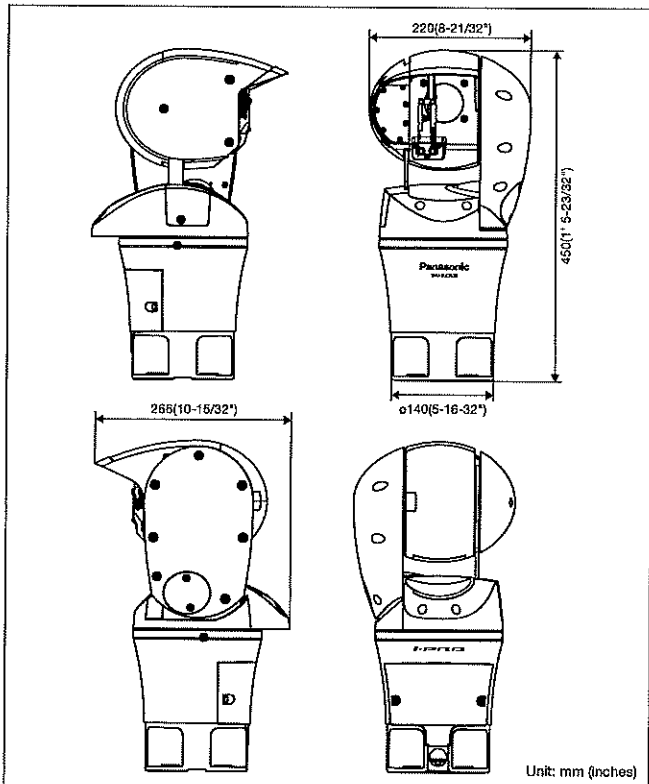
*2 When "AAC-LC (HIGH QUALITY)" is selected, there are limitations about the following function.

- 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



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- Design and specifications are subject to change without notice.
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