MICROSOFT FACE API FACIAL RECOGNITION

Stone, Andrea

Barbieri, John < JBarbieri@springfieldpolice.net> From: Wednesday, December 13, 2017 10:30 AM

Sent:

Schwarz, William J To:

FW: Panasonic Security Solutions for the Springfield Police Department Subject:

WHY ADVIDIA.pdf; 2017 Panasonic Video Surveillance Catalog.pdf; VI7 Key Features Attachments:

2017.pdf; PANASONIC PTZ PDF NEW FOLDER 08-1PTZ Facial Recognition.pdf

High Importance:

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,

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.

Download | Panasonic Security System

security.panasonic.com

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 ...

security.us.panasonic.com

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

Telepone: 713-581-9248





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.



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.

Onvie ONVIE

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.



 Pricing – Lower Total Cost of Ownership (TCO)

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



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.



· 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



EXTREME PERFORMANCE UNDER/EXTREME CONDITIONS



2017 VIDEO SURVEILLANCE CATALOG

WHY PANASONIC?

products and solutions that offer the industry's highest picture quality, mission-critical reliability and analyze surveillance video. Panasonic provides a comprehensive lineup of video surveillance 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 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

i-PRO Extreme as 2-3 Smart Coding = 6-7 Aero PTZ 🕿 4-5

Video Insight # 10-11 Ultra 360 m 12-13 Frue 4K as 8-9

Fransit Surveillance * 16-17 6.5.3&1 Series = 14-15 FacePro* ≈ 18-19

KEY BENEFITS

Key Benefits of Panasonic Video Surveillance Cameras = 20-25

COMPATIBILITY CHARTS **NETWORK PRODUCTS**

Housing and Mounting Brackets 🌣 53-58 Varifocal Lenses for HD Cameras * 59 Varifocal Lenses for SD Cameras ™ 60 412 Lenses for HD Cameras 😕 59 Ready-to-6o Packages 🌣 61-62 Camera Accessories 🕮 52

368-Degree Dome Network Cameras = 35 Boxed Network Cameras = 36-38

Fixed Dome Network Cameras # 29-34

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Monitors as 63

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Software and Accessories m 48-41 Kanagement Software ■ 44-45

PT Network Cameras = 39

ANALOG PRODUCTS

Fixed Dome Cameras # 47-40 Digital Video Recorders # 50 System Controllers = 51 Fixed Cameras 🕶 49 PTZ Cameras m 46



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

Panasonic



and enjoy the free benefits Sign up today

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

SYEAR

Enjoy these benefits:

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

VIDEOINSIGHT

White competitive manufacturers charge an annual camera utense fee for each camera connected to their VMS. you'll enjoy a burdled Weach Insight camera license with each eligible i-PRO camera.



Receive replacement units shipped the same day with overnight delivery.

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

U.S. purchasers etch. Panuaria: APND cannates with a nasoliat hatig date also becaker 2012 at retuing 41 AMS Nonno and the education beorgan warrante enursion and elegable

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

Auto-Intelligance features little automatic scene-detection confinuously monitor the field of view and instantly adjust the cameras parameters to optimize for best image capture based on scene dynamics, compensation 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 Gentures push that figure up to an 80% reduction. Extreme Reliability is enabled by technologies like HID Dynamic Power Control for the new WJ.NACID class recorder that reduces the frequency of HID failures and greatly extends their working life and Automatic-Fallover which allows two recorders to run in anotem for seamless New i-PRO platform cameras deliver Extreme Visibility with outstanding tow-light performance from their 1/3" sensors that rival many 1/2" sensor cameras and redundancy in mission critical applications. Panasonic's i-PRQ Preferred Program stands behind i-PRQ's Extreme Reliability by adding 2 years of factory varranty to the standard 3 year warranty on cameras. I-PRQ's Extreme Data Security means the new i-PRQ Extreme surveillance platform employs PC-level IP-Data Security standards via Panasonic's Secure Communications Suite and robust authentication using Symanter Device Certificates delivering comprehensive and-to-end data protection on all new I-PRQ Extreme-based cameras, recorders and video management software. feature an industry leading 1448 of Extreme Dynamic Range delivering balanced exposure and accurate color in even the most challenging lighting environments

EXTREME VISIBILITY

ENABLES CAPTURE OF THE HIGHEST QUALITY IMAGES AUTOMATICALLY even in very dynamic and challenging lighting enumonments

COLOR NIGHT VISION Delivers cutstanding law-light performance with accurate color rendition from a 1/3" sensor, riveling performance from more coolly 1s" sensor cameras EXTREME SUPER DYNAMIC RANGE. Extends Opnamic range to an industry leading 14(dB enabling balanced scene exposure even in the most difficult Ughting conditions INTELLIGENT AUTO Continuously enceiturs scene dynamics and automatically adjusts key camera settings in real-time to optimize captured images

EXTREME COMPRESSION

FECHNOLOGIES DELIVER THE HIGHEST QUALITY IMAGES AT THE LOWEST BITRATES NDUSTRY STANDARD H. 265 AND PANASONIC'S SWART CODING

SHART CODING Working on top of 14.245, Smart Coding technologies like GGP Control and Auto-Pills reloce bandwidth requirements even further for up to an 90% efficiency over 14.244 H.ZAS COMPRESSION Industry standard H.ZAS compression delivers high quality images while reducing streaming and storage requirements by approximately 50% over H.264. SMART FACIAL COUNG Aetomatically detects faces and self-learns motion-areas of a sceme to ensure the highest quality recording of detected faces and regions of interest

EXTREME RELIABILITY

D STAR HDD E-Fallow I-PRO PREFERRED WARRANTY STANDS BEHIND PANASONIC'S HIGH RELIABILITY NEW TECHNOLOGIES DELIVER LOW FAILURE RATES AND THE 5 YEAR

SYEAR WARRANTY Prassonics i-FRO Preferred program adds an additional 2 years to the factory 3 year warranty on i-PRO comeras for a total oil 5 years which includes Advantsed Exchange** HDD POWER COKTROL HIVD Synamic Power Control technology intelligently powers down HDD's without risking recording loss, extending HDD Life up to 7 years* AUTO-FAILOVER New WJ-NX400 recorders can be connected in tandem to enable seamless recording redundancy for mission critical applications

EXTREME DATA SECURIT

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

Syperator ...

SECURE Communicatio

SYMANTEC AUTHENTICATION: Panzonic's has partnered with Symantec, the global leader in cyberscurity, to depty their reliable Device Certificate technology on all 1-PAO Extreme devices SECURE CONNCINECATION A PC-level security suite embadded in all new 1-840 Externe Cameras, Recorders and Honogement Software enabling data and communications encryption FIPS CERTITIED 1-PRO Extreme products meet the Federal Information Processing Standard (FIPS) 140-2 Level 1, as required for FBI and Public Safety use

Physics in a party delice de interestation and and orders of buildings, with provide released depends on extreme the relationship

Panasonic

NEW CAMERAS (RES. 175 HD

SECURE H. 265 CAMERA LINE-UP









SECURE H, 265 VIDEO MANAGEMENT

WV-ASM380



KE(V Powerful Windows" application enables a sect scatable H.245 ready, multi-camera, multi-recorder surveillance management environment

IJEVI H.265/H.264 high-throughput and scalable recorder featuring integrated GUI and robust embedded IP security enabling a secure end-to-end PC-Less surrellance solution

ncuv n.zoo r-Pru HD & Fuil HD Adips camera line-up Featuring Extreme Visibility, Extreme Compression, Extreme Reliability and Extreme Data Security parformance

- Camera control, viewing and recorder management
 Integrates i-PRO Extreme H.255 & i-PRO H.264 equipment
 Secure Communication and Symantec Device Certificates
- HEIV UI design & 4K mative GUI enhances usability
 Automatic camera configuration wizard
 Now include mutti-monitor and WJ-CU950 support
 - 304.Mbps recording bandwidth
 Secure Communication and Symantec Davice Certificates

64 Channels – 128 Max [H.265/264]

Ultra High Sensitivity 8.008 tv (HB), 0.012 tv (HB)
 Color Night Vision – Fiul Color in law light
 Extreme Super Bynamic Range 144d8
 Auto Scene-detection and Optimization

- Buitt-in GU! and Dual HOM! Outpets
 - Automatic camera configuration
 2nd Stream Recording for mobile playback

* H.265 Comparession – Fuily H.264 Compatible • Smart Coding – Long GOP Mode, Auto VIQS • Smart Facial Coding

- (9) Integrated Drive-bays RAID/5/6
- External storage expansion up to 27018

£asy-Instalt ClearSight" Dome
 Integrated Image Stabilization on PTZ's
 Reliable night time image capture via built-in IR*

increases HDD life . Oynamic HOO Power Management Increa • Redundan fall-over using 2nd Recorder

n REW FREE limited version supports 16 Cameras/1 Recorder n No annual license fees

Base: 108 recorders, 64 encoders and 256 cameras
 Expandable to thousands of cameras, recorders and encoders

1-PRO EXTREME H.265 SERIES L'INE-UP

Secure Communication Suite
 Symantec Device Certificates

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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 Jeliver 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, oorts, airports, traffic, highways, railways and more.

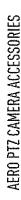


FULL HD RESOLUTION WITH 360-DEGREE VIEWING

- The Aero PTZ delivers Full HD resolution of 1088p at 60 fps with a 30X optical zoom lens
- i Hydrid 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 \$00 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 and a wider dynamic range compared to conventional cameras

HIGHLY RUGGED, SLEEK BODY DESIGNED FOR EXTREME CONDITIONS

- m High strength, sleek fiber glass body and borosilicate glass provides sait and air corrosion protection, making it highly durable in even the toughest weather conditions from salty wind gusts, to harsh sunshine to the severe artic 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
 - w Wind load durability at 135mph (operational)
- Built-in wiper and defroster













8E90NS-AM

RUGGED PTZ CAMERA FOR EXTREME ENVIRONMENTS

INTEGRATED WIPER & DEFRUSTER

TOROp Aufps

Wr. Optical Zoom

360° Spherical profile withstands hurricane force winds up to 135n

Operates from 100 to 240 volts AC or PoE (40M)

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.

BANDWIDTH REDUCTION

UP TO BOOK *

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.

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.

Neighborn and a leafer

3D~MMR reduces grainy noise generated in low-illumínance environments.

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

Shearing to the Raule Hal

60% Control reduces encoding data by using p-frame in place of i-frame when no motion is detected.

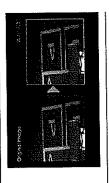
Auto-VIOS can automatically determine areas with and without motion and reduce the data volume of those without motion.

Panasonic

NOISE REDUCTION

FREQUENCY DIVIDED FILTER (FDF)

To remove fine naise from low-light footage, FDF separates camera output by frequency, removes noise and then recomposes the date, 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

60P 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 (vigs)

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



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

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

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









4K Vandat Resistant

Weatherproof Network Camera

Weatherproof Dome Network Camera

<u>JLTRA HIGH-DEFINITION, 4K PICTURE QUALITY</u>

nine times that of standard HD (1,280 x 720) and four times that of Full HD (1,920 x 1,080) Utra HD 4K cameras offer 27 times the resolution of conventional analog cameras (VGA), 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 highresolution images from the center out to the edges.



CROPPING FUNCTION

l given area within a single image can be selected, cropped still keep an eye on the overall image while also focusing priority, such as a parking garage entrance or a hallway, can be selected and displayed for easy viewing. You can and displayed. For example, areas with high monitoring





Compand treagn 2

on specific areas. With PTZ cameras, when the lens is pointed in a single direction, other areas go out of view during that lime, but with a 4K camera you can 4K (3,840 x 2,168)

WIDE-AREA MONITORING

monitor the entire area while also watching specific areas requiring more focused monitoring.

total number of cameras while also eliminating blind spots. Monitoring can be performed A single 4X camera can effectively monitor a wider area, which allows you to reduce the not only at vertical and horizontal angles, but for deeper depths as well

cameras. This translates into reduced costs for the cameras themselves, less installation 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

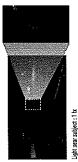
4K-ready monitors can also reduce the number of monitors needed in the control room.





Panasonic

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



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

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

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

n Vitra-wide-single 100°; Wide-single monitoring of parking lots, stadiums etc., vilizing 44 resolution w Telephoto 17º; Kontoning of Individuels or crowds from a distance









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Panasonic's Propriety 3-Brive Lens System

PANASONIC'S TRUE 4K TECHNOLOGY

The I-PRO TRUE 4K NW Camera is equipped with Panasonic's proprietary 3-drive lens system, which simultaneously drives two zoom lenses and one focus compact ensugh to fit in a standard camera body while providing a high-power 6x zoom with high 4.K picture quality viewed from an ultra-wide-angle of 100° tens. 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

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

aspheric lenses are also used extensively to reduce aberrations to the ultimate degree. The clear depiction, sharp resolution and beautiful color reproduction In order to create a sharp, clear texture, 12 tenses 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 necessary for true 4K monitoring have all been successfully achieved.

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-SFV781L

When attached to the mounting plate, the direction. The combination of a 6x optical camera's direction can be easily changed at intervals of 90°. Rotating the viewing the lens to be pointed in the desired area around the lens further allows



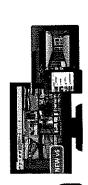
zoom and autofocus also shortens the amount of time required for fine uning the installation.



Box Type WW-SPV781L

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 Advidia 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 orgoing 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, rebal, and transportation sectors with a very strong presence in the education market consisting of 5,000 K-12 school/college customers. Video fusight is the easiest and most cost-effective Enterprise VMS with support for over 3,000 camera madels 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 Advidia 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 compliment 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.



irom any

WITV is a security camera wideo management app on Apple TV that allows users access to live and recorded video from any camen 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 avaitable based on the number of 19 cameras, the amount of storage, and the processing capacity. Both towers and rack mounts are available. For a full list of pre-configurat servers, please visit business, parasonic, com/products-videosurveitlance-servers.

Panasonie

The Advidia 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. Advidia cameras come in many different form factors (batlet, dome & PTZ) to meet your needs. Visit business, panasonic.com/advidia for more information.

advidia

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 bidden 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 R.264. The app imports all settings from a single address, providing users access to individual cameras or groups of cameras in predefined (ayouts. Users can save or email snapshotts, 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 Megapíxel 360-degree Network Camera with Built-In Analytics.











360-degree Indoor Dome 9 Megapixel Network Camera

360-degree Vandal Resistant 9 Megapixel Network Camera Outdoor Dome

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

NOW WITH SMART CODING

BANDWOTH REDUCTION





26 ft

13#









COMPLETE WITH POWERFUL ANALYTICS BUILT-IN

Panasonic

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.



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)

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

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

ULTRA HIGH RESOLUTION

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

JLTRA HIGH SENSITIVITY

087N.3S-M

JITRA INTELLIGENT

Provides natural-booking, 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 moniforing even in dim environments.

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

13

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

D Uniphier®

Panasonic's top-of-the-Line 6 Series, midrange 5 Series, 3 Series The next-generation UniPhier® Camera Platform is the heart of

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 mages 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.

delivering outstanding performance even in the most dynamic and chaltenging 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. functions like Enhanced Super Dynamic Range (133dB) video dynamic range and 60-frames-per-second performance in 1080p and 720p, The UniPhier® Platform—developed exclusively by Panasonic for use in its 6, 5, 3 and 1 Series cameras—offers innovative

NEW 1 SERIES MODELS NOW AVAILABLE









UNITE STATES Mark Serial

Enhanced Super Dynamic: 133d8 Wide Dynamic Range

Super Dynamic and Adaptive Black Stretch (ABS) technologies, the new 1/3/5/6 Series cameras allow you to see images that you couldn't Featuring industry-leading 133db (1 Series up to 122dB) Enhanced

JGHT RANGE COMPENSATION

ENHANCED SUPER DYNAMIC

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

Panasonic

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 topreserve forensic detail, while substantially lowering your storage and network costs.

BANDWIDTH REDUCTION

ANTERPORT OF THE PROPERTY OF T

Panasonic combines three advanced signal processing technologies – Group of Picture Control,

3D-Mutti-Process Noise Reduction and Frequency Divided Filter – which together provide a bit rate reduction of up to 80%, in the video without losing

his breaktirough ianovation comes standard on all new 1, 3, 5 and 4 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-SFV631 at 0.57 Lux

Conventional Camera at 0.57 Lux

EASE OF INSTALLATION

The 1/3/5/6 Series cameras are easy to install, with six patterns of hotes for various gang boxas, a 4-point bocking 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 hely improve the captured image in poor weather conditions, such as smog, fog or smoke, the visibility of the 1/3/5/6 Series cameras can be enhanced in any



Fog Compensation ON

SMART DOF (DEPTH OF FIELD)—6 SERIES ONLY

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



Conventional Fixed Dome Camera

FOR MORE INFORMATION ON 💆 , 💆 , AND 🚶 , VISIT WWW.US.panasonic.com/uniphier

with their high-resolution video quality to ensure crisp, smooth motion

the 3/5/6 Series cameras' ultratast frame rate of 60 fps combines for applications in casinos, airports, stadiums and much more.

EXCEPTIONAL IMAGE OUALITY

1

TRANSIT SURVEILLANCE SOLUTIONS

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 bus passengers and drivers while protecting the vehicles from theft and vandalism and reducing expensive Our NEW i-PRO Transit solution equips transit agencies with the tools to provide a safer environment for of arrest and conviction should a crime occur, helping reduce time spent in litigation.

IN TRAINS

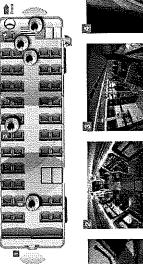








IN BUSES





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

Compatible with EN50155 "Railway applications" and EN45545 "Fire safety on rolling stock"

EN50155 "Railway applications": Electronic equipment used on relling stock

EN45545 "Fire safety on rolling stock"; Preventive fire protection in railway vehicles - Fire behavior and fire side effects of materials and parts.

Panasonic

TRANSIT SOLUTION RELATED PRODUCTS

360-degree Dome Network Cameras

4:

367 monitoring with a wide variety of transmission modes. A zool due streams IH.241. Paraman, Double-Paraman, Double-Parama

Law yorld design for dezerle installation Vendel restant metablism for fight relability Rob finat kwelt and dat restaint. Demphilos with IECAS29 measurment standard. 1ype 4.7 (U.SD). NEMA 4X compliant

WV-SW45BMA

Compatible with EN60165 "Railway applications" and DIN 5510-2. Fire safety on rolling stock 300° montuoring with a write variety of transmission modes: Parorama, Double Pantrama, Cuad PTZ, Single PTZ, and Ouad streams (H. ZA4/VGA) 1880; Pull HD images up to 30 fps

Law profits design for discrete installation Vender reststart mechanism for this Installation. His for bed vender of door resistant. Compatible with [ΕΔΩΣΣ measurement standard, type 43 (US-60, HEM) & compliant



Compact Size Dome Network Camera

1889, Fut Hümagas (WK-SY131M, ZZB, Hümagas IMY-SY1710M) up to 20 fes High assisting with DayAlloy (Electrical Innocion Libt of Chab), D.334 (EM) at 72 (WK-SY110M) - Compatible with ENSOTS: Yadiney applications" and EN45545 "File safety on reling stock". Low profile design for discrete installation.

Vandal resistant mechanism for high reliability

1966 rated water and clust resistant. Compatible with IEC60629 measurement standard, Type 4X (LLSO), NEWA 4X compliant



Rugged Mobile Network Camera

- High seventhay with DayMight Eleachical Lincolton: Claic No. Cleach, Lusic Nelwyd Arch 22 Novsewrith)
- The camera conforms to the PReA, Type 4K ULLSO) and PRAYK, is compliant with NEVA 4K rodings, and provides high dast resistance 1080p Full HD images (WV-SBV131M), 720p HD images [WV-SBV1T1M] up to 3D fps MY-SBYTTH / WY-SBYTTH

Achieves high-level vibration resistance with ENSO166 and MIL-STD-8186 compliance

-Adoption of a scratch resistant dome cover with a compact and above, design is optimal for cameras installed on the outside of a velocity. Vender resistant mechanism for fight reliability



fransit Recorders

1-PRO TRANSIT NETWORK VIDEO RECORDER

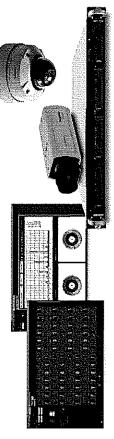
- Powered by the Intel[®] Core "if Processor for high-spieol performance. - Nanis Windows® OS for optimal software compatibility - Supports two W12 Ethernet contractions.

Bring portrollet computing pawer and exceptional video graphics bandling onto the bus with his rugged, mobile-taally recorder. With its ability to record and winelessity traismit. His video from up to four IP comeras top to 16 with an optional expansion switch, transit counted noons can be given complete situational avaieness of the rebicle in real time. RECOMMENDED MOBILE RECORDER FOR BUS (VTC/710)* "The Leaproduct from NEXCOM International Co., Lid. Contact a sales



Panasonic

WV-ASF900W—FacePro*



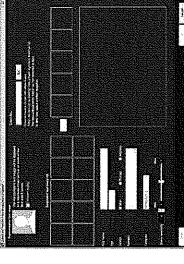
Windows® server-based face recognition and analytics platform featuring high-speed face searching and matching. The WV-ASP900W FacePro* Facial Recognition is a software solution and software engine that automatically performs verification of a person's face using live video streams or digital images from Panasonic i-PRO cameras to match against a database of enrolled faces and perform notification and alerting of face matches. Boasting 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 briggers on matched faces using live cameras. The platform can support multiple simultaneous client sessions with Panasonic's WP-ASM200W and WY-ASM970W software applications.

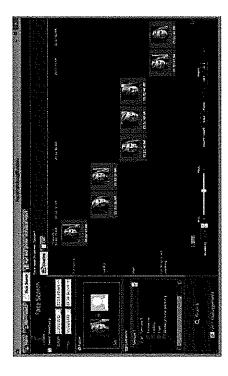
In addition to tive-camera face matching, FacePro features the ability to perform searches and display face matches from a database of historical captured faces. Face match results are displayed for each camera in the system and in chronotogical order, enabling you to quickly track a person of interest 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 elin mating personnel to monitor extrances. It provides instant notification, and bowers your risk by reducing and preventing violent continuotations dumin sapure, as well as by instantly alerting you of unwanted persons entering your halfily. It's simple and easy to use and boes not require physical contact, and it's the only reaches soution to use with large covers in your facility, in addition, it improves your service and soles potential by secupining customers.



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-SC385 models and WV-SFV6311, WV-SPN531, WV-SPN311 models and WV-SFV6311T model)
- m Flexible alarm triggers on matched faces using live cameras
- Requires ASM300/ASM200/ASM970 client software
- m ideal for Panasonic customers who have either WJ-ND460 or WJ-NV200/300 NVR

12 Cameras or more require dupl-cps FacePro server mad

\$

KEY BENEFITS OF PANASONIC VIDEO SURVEILLANCE CAMERAS

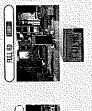
HIGH PICTURE QUALITY, HIGH SENSITIVITY

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

HIGH RESOLUTION

The Pansonic 1-RRO SmarthO Series of network cameras are high definition (HO) cameras capable of shouting video at Full HD (1,920A.120), and HD (1,920A.120), These cameras can record up to 60 images per second foli for 1,820A.120). The resolution for the capture of exceptionally clear images of moving objects. The resolution, frame rate, and other perameters can be adjusted for the installation lecution and subject for obtaining the optimum settings for your specific environment.





ENHANCED SUPER DYNAMIC

SD Super In installation anvironments with differences in brightness, the Super Oyacamic (SD) function brightens dim areas with low visibility and reduces the brightness of natural wars where Down-eart highlights can occur due to nore-infightness, providing a natural integet that is easy to view. In building entrance and similar locations, this enables the captuing of sharp images of people's faces as they enter from the outside when exposed

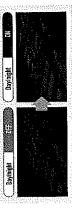
to driect suntight. With the Super Dynamic (SB) function, the camera can be installed without worrying about Uphling conditions that vary based on the time of day

and season.





conditions. During nighttime hours, the camera automatically switches to black-and-white video for providing foolage with high visibility. determine the brightness of the area and record video under the optimum bright during the day but dark at night, the camera can automatically



Supparted functions and specifications differ occording to the models. See the specifications for each mo-

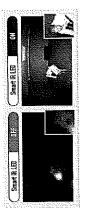
The i-PRO Smartdill Series comercis are ideal for salcoling in locations with depth, When recording areas with depth, such as straight passageways or wide spaces, the optimum image can be captured with focal points symutaneously at both the rear and far ends of the image. Smart 36- Depth of Field

BLUX PITCH DARK LOCATIONS

Cameras with a Smart R LEO can be used to monitor environments. Instruct that are completely dark. This enables areas without the Level of Alumination required to be monitored to prevent graffiti, (Negal dumping, and property

Smart R. LED can illuminate a wide area so that monitoring is not limited to a specific part of the image. The built-in IR LED of the 6 Series can capture subjects up to 30 meters away. Light levels are automatically adjusted for destruction.

subject close-by, making the right areas highly visible. The IR LED is covered to make it difficult to desect from the outside or to blown out highlights and screen whitening when the IR LED shines on a onow which way the lens is pointing.



STRONG LOW LIGHT PERFORMANCE IN COLOR

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



IMAGE COMPENSATION

Panasonic

FOG / SANDSTORM COMPENSATION

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







For cameras installed at locations along roads or at entrances and exits to parking lots, the glave of headilghits and other strong light sources shining into the camera lens can prevent the reading of krence plates and

in our Pain-wash coalet models, a special coating is applied so that water implies are repelled allowing clear images to be recoded even during rainfall. This coaling is also effective at repelling dirt so that clearing of the dome cover

Water droplets from rain can adhere to the dome cover of the camera and hinder the shooting of clear images. VISIBILITY ENHANCEMENT COATING

38599 J WY-5M397A / WY-5W3964 / WY-5W395A

is required less frequently.

Loatest areas are resistant to weter droplets





After Correction

Before Correction

Coaled areas are resistant to dirt

KEY BENEFITS OF PANASONIC VIDED SURVEILLANCE CAMERAS (CONT.)

MONITORING WITHOUT BLIND SPOTS

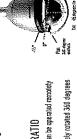
PTZ (Pan-Tilt-Zoom) cameras and omnidirectional cameras enable wide-area monitoring. Multiple cameras can be combined for more efficient monitoring and to eliminate

PTZ CAMERA FOR WIDE RANGE MONITORING AND A HIGH ZOOM RATIO

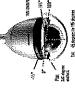
blind spots

Hamal fred lans 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 350 degrees at a high speed of 300 degrees/ses, you will not miss the subjects you want to monitor.



Advanced Auto Tracking



The year, Lift, and brown fearchings can be considered for authorized and authorized the subject. If the bracked subject of the carbon subject of subject of subject of the carbon subject of subject If the forzions you want to monitor are fixed, you can register them in advance and move to them with a single touch or automatically parted the registered tocations, that can be saved to a recordes when automatically parted ing the registered tocations, writhout intervention by an operator, Ranges that cannot

oe covered with a single fixed lens semere can be covered by patrolling,

Preset Position / Preset Sequences













Wen the direction of the camera Lens is dified upward from the florizonial place, the vision insign can appeal discipled the the discipled of the florizon bower and that "cases."

The Parasonia WH-SYSTS uses an ACM Linculum to recare this double-image effort and enables cherding of images up in 12° squeed from the behavioral place. This callons the use of auto raciolog and other florizons one a wide manorand rappe of the subject.

AUTO EYELID MECHANISM (AEM)

Available mades include Fisheye, Booble Pannama, Pancrama, Daad PTZ, and \$ Steam, and the cannara can output video inneges based on the selected video mode for reduced loads on the viewing system. The 360-degree Network Camers can capture images around the comera lans

360-DEGREE MONITORING







Management Software (MV-ASA/200) can be used on 260°emindirectional images captured by Fishere Mode to convert to a format that is explor to view, such as Cuad mode within the camera unit. Also, the Metwork Disk Recorder (MS-KV300) or i-PRO Because the 350° cranicinections, video image is stored in the recorder, nothing

is missed willian the viewing area.

The 360-degree Metwork Comera can generate and output video images for each

DE-WARPING

is addition, the case that you want to view ran be selected using a controller or more to altersylu to automatically more the scheding sport for parkelling the area. Even altering parts and returned to the screen are all the selection of the scheduler and an area the late of the Selection of Selection of the Selection of Se

NSTALLATION ENVIRONMENTS SUPPORT FOR VARIOUS

Panasonic

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

SELECT THE SPECIALIZED MODEL FOR YOUR INSTALLATION ENVIRONMENT

Rainwater protection for outdoor installations

Models can be extexted to nearth your specific installation conditions and can be installed in environments with temperatures ranging from +15°C. to -50°C.

The supported temperature range varies depending on the specific model.

Temperature protection for outdoor installations

The earkfoor medels have a waterprant and destproof storcture that as rated 1986 for earldson inchallation witheast requiring inspection to a special twoising or other inchallenty enderstion.











DEHUMIDIFICATION DEVICE

The retract caneer outdoor mother bene a teat-in defundate debet; hi loses the internal lamidity for preventing beduitness da its prekketsfon. It is climinates blamy vibes images conseil by closificy of the canesa forms one when is stabled in busilines with high humidity or outcome terriperature changes oner the causes of the day.

Vandal Resistant

IANDAL RESISTANT MECHANISM

shorz' obsorber around the internal lens. Even if the done cover is subjected to a pottonibally domoging impact, the shora' absorber visit absorb this impact to proxica the internal structure from domage. Models teaturing the Vandal Resistant mechanism include a



and tampering, measures are required for preventing standage to the cemean. Models featurement mechanism are Models featuring the Vandel Resistant mechanism are ideal for installation in those types of formations. When installed in locations that are prone to vandalism

(EY BENEFITS OF PANASONIC VIDEO SURVEILLANCE CAMERAS (CONT.)

NSTALLATION ENVIRONMENTS (continued) SUPPORT FOR VARIOUS

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

Onboard Model

A Lineup of network cameras is also available with anti-vibration and other specific transces for install-atom in care, succes, and other vehicles. The WHY-SBV151N, YMY-SBV111N, YMY-SM158-M, YMY-SRV18B, YMY-SBV18BM, and WV-SFV481 are compliant with the EH50155 European railway standards.

The rugged mobile network canera WV-SBV31M, WV-SBV11M meets the United States Department of Defense Military Standards Mil.-STB-8106 to with clank even the harshest

Mount on the Outside of the Vehicle

Also meeting the highest International Protection Standards PARPR, the context is class that and waterprior. And are also the series to bit measures on the uniside of buzzes and Meeting with standards elitims the series to bit meanted on the uniside of buzzes and trains. Which are conscioutly staking and valued on.

The lawses hard coarted surface allows the vehicle to be put through a correct). Capable of withstanding temperatures ranging from -40°C and up to +60°C [\pm -00° T and up to 160°T] the carrier is inglety warsaulta.



The E-PRO StrantitO Series cameras include a number of leatures for reducing the time required for

Reduced Installation Time

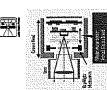
The dome cover can also be easily removed to change the direction of the lens.
For furthsor box type canerae (SPM modes), the stay can be bunt to one of two levels to allow installation with a high degree of troodom.

If you want to change the camera direction after incfallabin, the camera direction can be changed in 90° steps without removing the base (5PV, 5FR,









NTELLIGENT VIDEO MOTION DETECTION

Panasonic

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



INTRUDER BETECTION Crossing over the fence

€





the medius of objects is the stewing so checkon, seen, from and tooks are displayed area as the descript maniquidated in the the toops also so a subsection to an to detected simultaneously.

Interderence such as blockage of the lens with a cloth or spray paint SCENE CHANGE DETECTION

Π×

Objects moving in a specified direction

DIRECTION DETECTION "



Ø





Abandoned Object Detection

OBJECT DETECTION " Removed Object Detection

ckjects makig sa apecifial directin. Up to 8 chrolions can bu specifies. 1 type i. Type 2 type 2 activities and scalar to the specification pages P. 12 - 77 complex type 2 type 2 type 3 and 94 chrolions.

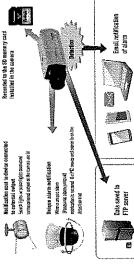


-aleifo like apposition when pospide or abjects arcas file amayinary lines. 2 kgs 2 kgs 3 retweek commun biops so the specificates yeapasP.12 • 27) en

ACTIONS WHEN AN ALARM IS DETECTED . Alore the epocales when a list or amount object is detected. 'S light, light Inches concer lists at its spectative pages 8.87—20 oct

Please find the Transit camera specifications on page 25.

Notification sent to the monitoring screen Alarm notification sent to the recorder and WV-ASM200 management softwar Monitoring



Municipal any-taran

Panasonic |

Apparance		NEW audicho September 2014		
		Onvirio	Onvirige	Onvirigo
		WY-SUD630	#V-SW598A (Erreaup	WW-SWJ97B Hd728P
School		1/3 + 05	1/2 MOS	1/3 MOS
	Video Cadec	8,264 J JPEG	H.764 / JPEG	H,264 / JPES
Codes and	H.264 molti stream	*	7	£-7
TRANSMISSION	PEG multi stream	6 (Variable)	ò	g ,
diameter Manuel promotes and an arrangement	Smart Coding	400 + 400	1000	- Annual Control of the Control of t
Max. Resolution	1.01	1280 ± 0551	B90 × 0221	021 X 0021
13- 505	H742	All firs flüsdel	30 fee (1880e)	38 fas (2.4.MP)
OMer. Resalution	DEG.	30 tos (1980d)	38 (1080c)	30 tps (2,4 MP)
Suner Dynamic / WIR / BLC		Super-D	Super-D	Super-D
Day/Might	der Kriestlerte besteht ab testen besteht ab	Yes (ICR)	Yes (ICR)	Yes (ICR)
ABF (Auto Back Focus) / Focus Acrist	s Aprist	Auto Focus	Auto Facus	Auto Focus
	Celar	0.06 tx @F1.6	8,15tz @F1.6	0.3 tr @F1.6
Min Branchadan	Color (Sens up)	\$407 [x [3 6x]	0.009 tx (16a)	0,019 tv [16x]
	15%	0.0 tx 42F1.6 (w/R)	0.918 lx 40FLS	0,84 to GF1.4
***************************************	B/W (Sens up)	***	0.001 tx [16x]	[k91] x1 £100'0
Suar	***************************************	6-43 to 139 am, Ft, 5	t= 4,3 to 129 mm, F1.5	£ 4.3 to 129 mm, F1.6
Angular field of view	16:9	B. 2.3 to 64 deg. (V. 1.3 to 38 deg.	H: 7,6 to 64.5 deg, / V: 1,6 to 38,2 deg.	K: 2.6 to 64.6 deg. / Y: 1,6 to 38.2 deg.
	Pance	n: 1.5 to bu edg. / v: 1.5 to 50 fleg.	B. L.4 W. 44-4 BBg./ Vi L.1 IB 33.0 Deg.	Ti LA ID see, stell, T. L. ID 33.0 dely. Findlate
Pa	Sieted	365/mail 200	30 dea/sec	30g degree
	Range	Upright: -50 to +90 deg. / Forward filt: -90 to	-15 to −195 deq.	-15 to +195 deg.
i	County	An new man the second s	300 des (see	230 Anders
340 Pro. Flir	Specia	335/540 nn7	35 deg.	ansalan ens
Humber of Preset Postulens		729	256	256
Potrol		13	Instrument and a second	Yes
Auto Tracking		'n	Yes (advanced)	Yes (advanced)
Optical Zeam		±BC	38x	30x (45x tvitla Extra Zauon at HB)
Digital Zeam		स्र	ध्य	12%
YMD (Video Hotion Detection)		Yes (4-areas)	Yes (4-areas)	Yes (4-oreas)
I-VMB (Intelligent VMB) [w/extension software)	lension software)	-	-	-
VIOS	odedadad complete blanch complete blate	Yes [8-areas]	Yes (2-areas)	Yet (2-areas)
Max. Connection		አ	71	14
	In (Line)	Yes	Yes	Yes
	in (Built-in MIC)		**	-
Audia	Get.	Yes	fes	Yes
	Codec	6711/6.75/AC	6711/6.724 (AAC P-2)	E.711/6.726/AKC(*2)
	Audia Detection Alasm	Yes	Tes	Yes
	Slet	-	Yes (SOXC)	Yes (SDXC)
Sil memory Eard	Passworf & Alter Beharten	ı	ı	ı
	Audio REC	1	ie.	\$2X
External 1/0		Tes (3) (~4)	Yes (3) 1-3)	Te (3) (*3)
Honiter Cut		1	Yes (Composite)	Tes (Composite)
Vandal Resistant		203, 1840	201, IK10	207, 1410
Water and Dust Resistance		IP47 / IP44 / NEHA 4X	IP66/HEM44	P66
Temperature	1	-58"F to +148"F	. 58°F 10 +131°F (24 V / 40 W Po£) (*4)	-58°F to +131°F (24 V)
Power Snerce		£C110 to 240V / 500V loiecter	24 V &C / Past	Z4 V AC / PaE+
Dehumidification device		sa _k	Yes	SZ),
Other Functions		Built-in Winer, Deflecter	Built-in heater, Rain wash cooling,	Built-in heater, Auto Eyelid Muchanism,

("th ang to Torke ("The ham be language, he we kelidere and ham kelialle that is not all 1"4" leave the lyente

AND DESCRIPTIONS OF THE PERSONS OF T				The second commence of
		-(1		
Appearance		P ishao	Opyreige	Onviria
		WW-SWJ95A	WV-SC588A	WV-SC307A
Sensor	The second secon	1/3 MOS	1/3 K0S	17 MOS
	Vidoo Cedac	H,264 / MPEG-4 / JPEG	H.264 / JPES	H.264 / JPEG
Codec and	H.264 multi stream	£	2	2
ransmission	JPEG multi stream	9	9	Ģ
	Smart Coding	-	1	1
Mary Manual rates	16:9	1280 x 720	1920 x 1080	1280 x 720
FOX. NESOLUTION	4:3	1280 x 948	1280 x 964	1285 x 948
All FPS	11,254	30体(1.3円)	10 feb (1 088p)	30 fps (2.4 MP)
Collax. Roselution	JPE6	30 (ps fl.3 KP)	30 fps (1000p)	30 tps (2.4 MP)
Super Dynamic / WDR / BLC		Super-B	Super-D	Super-P
Oay/Hight		Yes [ICR]	Yes (ICR)	Yes (ICR)
ABF (futo Back Focus) / Focus Assist	Assist	Auto facus	Auto Facus	Auta Focus
	Calar	0.5 k @F1.5	DS tr OFF.6	0.3 tr 40F1.6
	Color (Sons up)	0,03 (x (1 t bx))	[18] H EJF (0,019 lx [16x]
AIR. IIILIATIONELIORE	BW	8.03 tr @F1.6	9°14@x7 96°0	0,06 tx @F1.6
	B/W (Sens up)	8,004 ix [14x]	0.104 tr (16x)	0.003 tr [16x]
28 3		f= 4.7 to 24,4 mm, F1.ú	f= 4.3 to 129 mm, F1.5	(=4.3 to 129 mm, FL.6
hearifordial & of resus	16:9	H; 3,2 to 55,2 dey, / Y: 1.9 to 31.9 dey.	H; 2,34 to 65,1 deg, / V; 1,36 to 30,4 deg.	H: 2.34 to 65.1 deg. / V: 1.36 to 38.4 deg.
rigatol (IDA of View	4:3	H: 3.2 to 55.2 deg. / V: 2.4 to 42.1 deg.	H: 1.6 to 45.2 deg. / V: 1.2 to 34.3 deg.	11: 1.5 to 45.2 dog. / V: 1.7 to 34.3 deg.
	Range	S to +JED deg.	Endless	Endess
	Speed	300 degfser	उग्ना कुर्बर हरू	3ilb deg/sec
ā	Ratige	-30 to+90 deg.	-25 to +205 deg.	-25 to 4285 deg.
	Speed	100 deg/sec	300 deg/sec	300 deg/sec
360 Pan-Flip		Yes	-	1,47
Number of Presel Positions		3	992	200
Patrol		_	'fes	
Auto Tracking		23 ₂	The Selection of the se	(DECIMANCE) SAL
Optical Zoom	aradiamahibiahi yi Okani Hideon Hide	8.	NOK NOK	Jaa (CS: with Exits Zegre of HB)
Digital Zoom		NI.	121	121
VAD (Video Motina Detaction)		Yes (4-areas)	fes (4-arias)	Yes (4-37635)
i-VMD (Intelligent VMD) (w/extension software)	mesion software)	_	-	_
NOS		1	(tes [2-areas.)	Yes 12-areas
Max. Connection		71	II.	71
	la [Line]	Yes	Yes	Yes
	h (Beitein ME)	-		+
aging a	Out	Sal	ž	Yes
	Codes	6,711/6,726	6.711 / 6,726 / AAC (*1)	0.711/6.726/AAC[*1]
	Audio Detection Alarm	1	Yes	Yes
TO PROPERTY OF THE PROPERTY OF	Slot	Yos (SDHC)	Yes (SOXC)	Ye= (SDXC)
SD memory Card	Password 2	1	ı	1
	Auto DEF		Yes	Yes
Edmin 170	Authorite	Vec (3) (+3)	Yes (3) 1-21	fos [3] [*2]
Moothe Dist		Yes [Canada]	Yes [Min1-jack]	Yes (Mini-jack)
Vandal Resistant		20.J. IK30		1
Water and Dust Resistance		9941	-	j
Temperature		-40°F ta +122°F [24 V]	+14°F to +131°F	414°F to +131°F
Contract Contract		72 F to 4 L Loues	12 V RC ParE	12 V DC / Po6
Potential distress		Tar	1	1
		Brillis bester		
OtherFunctions		Rain wash coating (IVM-SNG95A)	Dome less	Dame (ESS
Mounting Options		Sole page 50	Soc pages 48, 49	See pages 48, 49
The second secon				

FILE CHRY IN SOURCE ("The March of Chrysfolgal dall 44 cm half Album Quil, Khom hall Did Chall Is I das ear all

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and for the factor to be former of the motor thinness as a part of the same of	The second secon	HB72DF TO MAN I THE CONTRACT OF THE PERSON O	のできた。 では、これでは、これでは、これでは、これでは、これでは、これでは、これでは、これ
Sil Si	Video Conter	1286 J. FEBER 1	1,3 MUS H. 264 / MPEG-4 / JPEG
	H.264 multi stream	2	1
Transmission	JPEG multi sizezan	þ	<u> </u>
- Charles any of relitation of the same	Smart Coding	44)	-
Man, Resolution	16:9	1280 x 729	12BD x 720
	453	1288×948	1280 x 960
Man, FFS	1,264	30 (ps (1.3 KP)	(元代) (2) (2)
	JAES	Lange (1, 2, M.)	13. 17. 17. 18. 18. 18. 18. 18. 18. 18. 18. 18. 18
September of Mark Bit		UNDEFLE 	WUX
DOC Links Dock Some Course Served	in the second	Stant Series	tos (prout Rati
General Leave Page William	Polor	1 4 1 - CAL1 4	2000 - 1000 p.
	Faint Sene not	(5) × (5)	0.138 to 10.45
Min. Illumination	BOW	0.0616	6.512.ØF1.6
	BAY (Sens up)	G.004 Jr (16x)	8.03 tr [16z]
lens		6.4.7 to 34.5 mm, F1.6	(r-4.7) to \$4.6 mm, F1.6
	16.9	F: 3.2 to 56.2 dec / 1.9 to 31.9 dec.	Ik 3.2 to 55.2 den. /V. 1.9 to 31.9 den.
Angular field of view	4.3	H: 3.2 to 55.2 dec. / F: 2.4 to 42.1 dea.	H: 0.2 to 55.2 des. / V: 2.4 to 42.1 des.
-	Range	0 to +350 deg.	9 to +350 deg.
.	Speci	300 deptsec	300 deg/soc
	Range	-30 to +90 deg.	-30 to +90 deg.
	Speed	100 deg/sec	100 degylsec
340 Pan-flip		zi) ts	tes
r of Preset Positions	seered entablished in square Harladenaniques	79	***************************************
Patrol			***
Auto Tracking		tet.	-
Optical Zoom		184	18%
Digital Zoom	***************************************	12x	***************************************
WALD (Video Motion Detection)		Yes [4-3/825]	Yes (1-74) pas
FVMD (Intelligent VMD) (wiextension software)	Son sollware]		
Mus Married			
Man, Luimachus	1.00	± 2	74 N
	10 (100)	105	22
	III (DBIII-III PAL)		1
	UUII Martinessa martinessa martinessa martinessa martinessa martinessa martinessa martinessa martinessa martinessa m Condessa	101	260 S 1 1 1 E 20 S 1
	Lucia Balartin Mucm	77.0	97/m / 11/m
	Stal	Yee (SDHC)	CHISTERA
	Password &		201001 01
So memory Land	Atter Detection	144	-
	Audio REC	-	— — — — — — — — — — — — — — — — — — —
External I/O	and the second s	Yez (3/1)	Yes (3/1)
Monitor Dut		Yes [Mini-Jack]	Yes (MAN-Jack)
Validal Resistant		-	_
Water and Dust Resistance			
leoperature		1.7714 E 1.514	T.777 + DL 4.74 + DL 4.77 + DL 4.77
Principal and a second	and the second second second second	IZ ¥ BU ≠ Po€	12 V DC./ PSE
Dentification assets		_	_
Under Functions		**	

			A	1	1	
Appearance			þ			b
		Onvirie	Onvirigo	Onvirigo	Onvirige	Onvirigo
		WW-SFW781L	WV-SFV631LT	JIE9K4S-AM	WV-SFV611L HB72UP	WV-SFV531
Sensor	невенные ентенные положение в не	1/1.7 MOS	1/3 MOS	1/3 MOS	1/3 MOS	1/3 MOS
armeria meneral a labbada lababaha kedesha	Video Cadec	H264 / JPE6	N.264 / JPEG	H,264 J JPEG	H.764 / JPEG	K264 / JPG6
	H.264 mulbistream	7	A	7	7	7
Codec and Transmission	JPEG muito caream	7	6 (Variable)	6 (Variable)	6 [Variable]	\$ [Variable]
	Smart Coding	Yes (GOP Only)	Tes	32	72	ZZ,
-	15:9	3840 x 2160	銀01×銀61	1920 x 1080	1250 x 720	1920 x 1080
Max. Resolution	14:3	4000 x 3000	2048 x 1536 [-1]	2048 x 1526 [*1]	12a0 x 960	2848 x 1536 [*1]
Max. FPS	H.264	3dips (4K)	60fps (1080p)	60lps [1080p]	60tps (720p)	60fpc (1880p)
OHAX, Resultifur	7986	15(ps [12 MP]	30tpc (3 MP)	38tps [3 MP]	30(ps [1,3 MP]	30tps (3 MP)
Super Dynamic / WBR / BLC		WER	Enhanced Sil	Enhanced SB	Enhanced SB	Enhanced SU
DayMight		Yes (ICR)	Yes [ICR]	Yes (ICR)	Ne (CP)	Yos (ICR)
ABF (Autor Book Focus) / Focus Assist	s Assist	181	ABF	ABF	ABF	ABF
THE REPORT OF THE PERSON NAMED IN THE PERSON N	Calor	6.1k@f1.6	0.06 tx @F1.6	8,174 W GF1,3	0.01 k/DF1.3	0.07 tx @F1.6
offer Historicalities	Colur (Sens up)	0,02 lx [16x]	0.0045 lx [16+]	[x91] AT E00"0	0,0007 ix (16#)	0.805 lx (16x)
Paris, realistifications	BW	8,8 Lx (20FT),6 (w/IR)	E,B \r \text{QFL5.{w/R}}	1.0 to GPF1.3 (w/R)	3,0 to 40FT,3 (so/TR)	0.01 tr@F1.6
	BPW (Sens up)	1	1	-	1	D.(SOU) [x 1-6x]
SIP!		t-4.2 to 25.2 mm, F1.6 Hatorized	14 9 to 12 mm, F1,6 Hatorized	fe 2.6 to 10 mm, F1.3 Hatorized	f= 2.8 to 10 mm. F1.3 Hotorized	(#2,8 to 9,5 mm, F1,6
	16.9	H: 17 to 96 deg. Y: 9.2 to 54 deg.	H: 13.2 to 33.0 deg. V: 7.7 to 17.3 deg.	H; 28,8 to 102,6 deg, V; 16,3 to 56,3 deg,	H: 26.4 to 93.7 deg. V: 14.3 to 51.4 deg.	H: 31 to 109 day. V: 13 to 59 day.
Angular tield of wiew	£:3	H: 17 to 188 deg. V: 13 to 75 deg.	H: 11.5 to 27.0 deg. V: 8,6 to 19.9 deg.	H: 23,7 to 64,3 deg. V: 17,8 to 62.4 deg.	H: 26,4 to 93,7 dog. V: 28 to 69,3 dog.	N: 26 to 89 deg. V: 20 to 66 deg.
	7	-188 to +180 deg.	-180 to +180 deg,	-188 to +188 deg.	-180 to +160 deg.	-188 to +180 deg.
djusting Angle	18	O to +65 Jeg.	0 te +05 deg.	Ø to 485 dag.	0 to +85 deg.	-85 to +85 deg.
Optical Zoom		**	X7.7	3.6x	3,62	3.3%
Digital Zocin		15	Ит	44	44	N7
VMD (Video Motion Betectien)		Yes (4-press)	Yes [4-ares)	Yes (4-proas)	Yes [4-areas]	Yes (4-preas)
:-VMC (intelligent YMD) [w/extension software)	enclon software)	1	Yes [Type?]	Yes [Type2]	Yes (Type2)	Yes (Type2)
VIOS		Yes (B-areas)	Yes [B-areas]	Yes (B-sreas)	Yes [9-areas]	Yes (B-areac)
Max, Conpection		14	7	:2	7.	71,
	# Line	žī	řř	31,	Yes	ä
	te (Bailt-in MC)	-	-	t	-	1
Andin	98	Yes	Yes	Yes	Yes	ă
	Catlec	6,711 / 6,726 / AAC [*2]	6.711/6.726/AAC	6.711 / 6.726 / AAC	8,711/6,726/AAC	6.711/6.726/MC
	Audio Detection Alarm	1	Yes	Yes	Yes	ř
	Sint	Yes (SBXC)	Yes (SDXC = 2)	Yes (SDXC.1.2)	Yes SDXC x 2	Yec (SDXC)
50 тетогу Сэгі	Passwerd & After Detection	ı	Yes [V1.52]	Yes (V1,52)	Yes [V1.52]	ž
	Audio REC	Ē	Yes	ZZ,	Yes	Ä
Enternal I/D	are bernerer recommende free factor designation of the factor of the fac	fes [3] (*3)	Kes [3] [*4]	(b_) [c) sat	¥es [3] [*4]	沙區級
Monitor Dut		Yes (RCA)	Yes [mini jack]	Yes [mini jack]	Yes, [mini jack]	Yes (mini jack)
Vandal Resistant		20J, IK10	50, K1	S01, K10	50, K1	50J, EKT0
Water and Bust Resistance		3P66 / WEMA 43.	1966 / HEMA 4X	1P66 / NEMA 4X	IP66 / NEMA 4X	IP66 / REMA 4X
Tomporative		-135°F to +122°F	-4,9°F ts - 122"F	-49°F to +122"F	-49*F to +172°F	-49°F to +122°F
Fower Source		12 V DC / PoE	12 ¥ BC / Pe£	12 V DC / PoE	12 ¥ DC / PoE	12 V DC / PoE
Dehumldification device		Yes	Yes	Yes	Yas.	Yes
Other Functions		Smart-BoF. Balk-in hoate. Rain wash coaling. Ruitt-en 19 1 FD	Smart-Bof. Built-in hobier. Built-in IR LEO	Smart-Bof. Bulk-in healer. Bulk-in IR LED	Smart-Dof. Built-in heafer, Built-in 18 LEO	Ruilt-in heater
Mauritine Ortinae		Spe names 45. 47	See 120es 45. 47	See 03088 45. 47	See pages 46, 47	See pages 45, 47

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Арреатосе		(j)		NEW CO	HEW (Q)
		OTVIFIO WV-SFV311A 802209	Onvie 10 WY-SP/310A 807209	Onvie @ WKSPIJB/WV-SPVIJB/(*5)	Onvieto Wesprijawestrijawiej Hozap
Sensor	and a feed of the feet of the	1/3 MOS	1/3 MGS	1/3 MDS	1/3 MOS
	Video Codec	H.264 / JPEG	H.264 / JPED	H.264 / JPEG	R.264 / JPEG
Codecated Tenethirebea	H.264 multi stream	7	y	yr.	*
	JPES multi stream	6 (Variable)	6 (Variable)	6 (Yariable)	\$ (Variable)
arbeiteberteiteren mensemmen beibei	Smart Ceding	18	Yes	Sal Salamanananananananananananananananananan	Yes
Mar. Resolution	16:9	1928 x 1980 (*11/ 1290 v 720	1920 x 1980 (*11 / 1280 x 720	1920 v 1980	1280 x 728
	4:3	1250 x 940	1289 x 940	2048-1536	1280 x 940
Mar, FP5 Other Bessletten	H.764	60f(ps (720p)	58fps [728p]	30lps (3MP)	30fps [1,3MP]
Compr. Democrite (19709 / B) C	Jreu	Support of Ref	Julys 11.3 MPJ	Super Demanity	Senso Personic
Davidichi		Vec (ICR)	Yes [Electrical]	Yes [Rentical]	Yes [Bectrical]
ASF Kuta Back Fecus / Focus Assist	Assist	AEF	Facus Assist		-
viletandehedenskinskinskassasskinsk	Color	101 k 251.8	10149714	£1 b @£2.3	LIM IN GPF2.3
	Color (Sens up)	A_0007 tx [16x]	8.0007 tv (16x)	8,007 tx (16s)	0,003 (x (16x))
Mar. Ruminztion	B/W	0.000 tx @F1.4	\$100 tx @F1.4	U.08 ta CPF2.3	0.00 tx @F2.3
	B/W (Sens up)	0,0002 (x [14x]	0,0005 ty (16x)	0.005 tx [16x]	0.002 tx (16xJ
(ens		(± 2,8 td 19 mm, F1.6	6-2,8 to 10 mm, F1.5	(» 2,3mm, F2.3	l≃ 2,8mm, £2.3
	16:9	H: 78 to 99 deg. V: 16 to 54 deg.	H: 28 to 99 deg. V: 16 to 54 deg.	R. 188 dag. V: 60 deg.	R: 100 deg. V: 55 deg.
Angular fleid of view	4:3	H: 28 to 97 deg.	B: 28 to 99 dag.	E 89 deg	H; 106 deg.
and consistent and an artist and artist and artist and artist and artist and artist artist and artist artis	Pan	-180 to +150 degr.	-188 ts +189 deg.	-28 th +28 dec.	-Z0 to +Z8 dea.
Adjusting Angle	711	-85 to +85 deg.	-85 to +85 deg.	-28 to +98 228.	-21 to +10 deg.
Optical Zeon		3.6x	3.6×		-
Digital Zoom		¥	*	**	х7
VMD (Video Motion Setection)		tes (4-areas)	Yes (4-areas)	(as [4-areas]	Yes (4-preus)
-VHO (Intelligent VHO) (w/extension software)	insion software)	ž	, Kes	[hac]	Yes (Typez)
MCS		Yes (6-areas)	Yes (B-areas)	Yes (B-areas)	Yes (8-areas)
Max, Connection		74	71	14	*1
	le (Line)	ឆ្	1	ŧ	-
	In (Built-in MIC)	ı	ı	SES,	ž
Audio	Ē	Ā	1	ı	1
	Codec	6.711 / G.726 / AAC	THE STATE OF THE PERSON ASSESSMENT OF THE PERS	6.711 / 6.726 / AAC	6.711/6.726/AC
	Audio Setection Alaria	蒼	-	Yes	rk Fk
	Slot	Yes (SDXC)	res (SDXC)	12 (SOIC)	hes (SOXC)
SD memory Card	Password & After Detection	7. 21.	Tec	Yes	Yes
	Audio REC	Ä	1	Yes	24
External I/T		Yes [3] [*3]	[2][[2]	1	-
Menikor Gut		Yes (mini jack)	Yes (mini jack)	-	+
Yandal Resistant		50J, UK19	Sel., 1K18	R10	IKIO
Water and Bust Resistance		IP66 / NEMA 4X	P66 / NEM34 4X	IP66 / HEMA 4X	Prés / NENSA SX
Temperature		49°F to +122°F En operation	-49°F to +122°F (in operation)	-49°F to +140°F	-49°F to +148°F
Power Source		12 ¥ DC / PaE	12 V DC / PoE	PDE	PoE
Dohumidification device		Yes	. Yes	t	1
Other Functions		Built-in heater	Bult-in heater	Railway Application [FNSD155-13, ERSD171, ERK5545, EN59498 and EFF-1711 [SPV130H]	Railway Application (ENSB155-13, ENSB121, ENSB545, ENSB628 and EFF, by II SCHA19M11

riten dogistek dinakennenni izi Amelikapisek karelakar nilak datir masi (ik serek legesta naman kamel kare di Amelika kali masi Iti karelika beradanan kan kilam dalam dalam dalam dali 1940 pili pise datigi seta seren seren kilam dalam dalam

Onvir 1000
WV-SFR6111
BW728P
US MOS
US MOS
TO A
S (Nexabel)
TE S
TO 1780 1730
TE S
TO 1780 1780
TE S
T f= 2.8 to 10 mm, F1.3 Motoriced R: 70, 4 to 94,3 eag. V: 14,7 to 51.3 dag. H: 70,4 to 94,3 dag. V: 19.8 to 69.5 dag. - 583 to - 188 dag. I to + 65 dag. Sre pages 45, 47 8.711/6.734/AAC Yes Yes (SDXC x 2) Yes (mini jack) 201, IK10 Yes |V1,52) **≨** 16.28 to 10 mm, F1.3 Motorited H1.78 10 1023 deg. V1.16.0 to 62.2 deg. V1.728 to 62.4 deg. V1.728 to 62.5 deg. -180 to -180 deg. 0 to -65.6 deg. 6,711 / 6,726 / AAC Yes Yes SOXC x 21 WY-SFR6/11
WY-SFR6/11
WAS BUDBIN
1/3 MOS
1/3 M Smart-Dof. Built-in PR 160 See pages 45, 47 Yes (4-areas) Yes (1ype?) Yes (1ype?) Yes (3) [*2]
Yes (min) jack)
201, IK10 Yes [V1.52] 3,64 ş 0.05 k [16d]
0.05 k [16d]
0.05 k [16d]
0.05 k [16d]
0.05 k [16d] Yes.[1-area] Onvielo WV-SW115 80738P 1/3 MGS H.264 / PEG 1966 J NEPAN CX -227% to +122% PoE ENSONSS, ENSO(2) 1280 x 729 1280 x 729 30fps [1,3 MP] 30fps [1,3 MP] Super-D Yes [Electrical] H: 104 deg. V: 68 deg. H: 104 deg. Y: 85 deg. -30 to +30 deg. Yes (SBHC) 20J, IK10 \$ B CONVE 1800

San (2)

San (2)

San (3)

San (3)

San (4)

San (5)

San (4)

San (5)

San (5) MB-STO-8186 Engines-73, ensolve, Engines, ensolve, Engine H: 104 deg. Y: 69 deg. H: 104 deg. Y: 85 deg. -F78 to +F70 deg. 6.04 tr @F2.2 6.003 tr (16x) 8.03 tr @F2.2 8.032 tr (16x) 1280 x 726 1280 x 866 30tpc [720p] 30tpc [1.3 MP] WOR Yes (Electrical) fa 1,95 ann, 12,2 Yes 6.724[ABPCM] ė (Variable) 3x Yes (4-areas) Tes (8-areas) - Fez (SDXC) ₹ I E ME-STD-6186 EMG0155-12, EMS0/21, EM455-45, EMS0/48. ECE-R10 Yes (8-areas) H: 109 deg. Y: 73 deg. H: 97 deg. V: 79 deg. -170 to +170 deg. -48 to +80 deg. 1920 x 1085
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to 19uilt-sa MC]
Out
Couloc
Audin Delection Marm Video Chalec
H.34 multi stream
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16:9
4:13
H.254
LPEB Color (Sees up)
BAW (Sens up) Stot Passward & Alter Detection Audio REC VAO (Video Mation Detection) F-VMB Einelügari VMD (w/extension software) 16:9 3 2 2 ABF (Auto Gack Focus) / Focus Assist Super Dynamic / WBR / BLC Water and Dust Resistance Codec and Transmission Dehamidification device Max. FPS Cohfax. Resolution Argular Hold of view Mia, Illumination Monitor Out Vandal Resistant Max. Connection SD memory Card Max, Resolution Adjusting Angle Other Functions Temperature Optical Zoum Enternal (79 Power Source Digital Zoom ppearmic

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Panasonic

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NETWORK PRODUCTS

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Accounting		l.	b		
		Onvie	Onvieto	Onvirio	Onviried
		WV-SFR531	WV-SFR311A	WV-SFR310A	WV-SFN631L
Control of the contro	Comments of the Principle of the Princip	No supple	1/2 M6S	12 NOS	1/3 HOS
	Video Cadec	H284/JP65	H.264 / JPEG	R284 JPEG	H.264 J.1PEG
	H.264 multi stroom	7	7	7	7
Codec and Transmission	JPES multi strcom	6 (Varfable)	6 (Variable)	6 (Variable)	6 (Yariable)
	Smart Coding	Yes	Yes	səl	1
The second secon	16:9	1920 x 1060	1920 x 1088 (*1] / 1280 x 720	1926 x 1080 (*1) / 1280 x 720	1970 x 1060
Max, Resulution	4:3	2848 x 1536 [*1]	1200 x 960	1200 x 960	2048 # 1536 (*2)
	H 264	60fps (1060p.)	50fps [728p]	14027) sqibb	60fps (1060p)
Max, PPS GMax, Resolution	134	38fas [3 MP] (*1)	30gs (1.3 MP)	30ips (1.3 MP)	38/ps (3 MP) (-2)
Comer Personal / 1989 / BLC		Enhanced SU	Enhanced SD	Enhanced SD	Enhanced SD
Bay/Eight	The state of the s	Yes (ICR)	Yes (10R)	Ves (Electrical)	Yes (ICR.)
ARF (Anto Bork Facus) / Fecus Assist	s. Assist	, Age	ASF	Facus Assist	ASF
	Calor	0,07 bx QPF1.6	0.01 tx GP51.8	0,01 lx @F1.6	DLM in CPFL3
	Calur Sane un	0.905 lx (16k)	0.0007 lx [16x]	LBW k (16x)	9,000 ts (16x)
Min. (Runtination	RW	8.01 ix @F1.6	8,130 x 200.0	FLIO 4 8000	1.5 tx 40F1.3 [w/IR]
	BAW Sons Ital	0.0007 to (1.6x)	0,0002 tx (16x)	Q.0005 tx (16x)	
Lons		1+2.8 to 9.5 mm, F1.6	f= 2.8 to 10 mm, F1.6	I= 2,8 to 18 mm, F1.6	f= 2.8 to 10 pm, F1.3 Motorized
	16.9	H: 31 to 109 deg.	H. 28 to 99 dag.	H. 28 to 99 deg. V- 15 to 52 deg	R: 29,3 to 104,1 deg. V: 16,2 to 56,8 dec.
Angular field of view		H: Zá to 39 deg.	H: 28 to 99 deg.	H: 28 to 99 deg.	H 24.0 to 85.5 deg.
	•	V; 20 to 66 deg.	V: 21 to 72 dag.	7: 71 to 17 to 97.	to told to pay uply
diameter India	Ę	+120fright! to -240fteft) deg.	+126 to -248 deg.	+120 to -240 deg.	-16% fo +19% deg.
avisio flugeni	Titt	-45 to +46 deg.	-85 to +85 deg.	-B5 to +B5 deg.	U +43 dej.
Optical Zeam		3.3x	3.68	3,6%	3.50
Digital Zoum		X)	×7,	23	
VACO (Visteo Metion Detection)		Yes (4-areas)	Yes (4-areas)	Yez (4-areas)	Tes (4-ares)
-VMO (Intolligent VMD] (w/extension software)	dension setware)	You (Type2)	Yes	D.	Jest Lypezi
YICS		Yes (B-areas)	Yes (B-amas)	Yas (8-aroas)	Yes (B-argas)
Мах. Соплескоп		***************************************	76	j	(4)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)(e)
	In (tine)	ž	sa),	-	31
	In (Boilt-in MC)	1	1	*	1
	Det	ħ	, les	,	'n
	Codec	6.711 / 6.726 / AAC	G.711/G.726/AAC	-	6.711/5,726/ARC
	Audio Detection Alarm	Yes	ž	-	Yes
	Stot	Yes (SUXC)	Tars (SDXC)	Yes (SDXC)	Yes (SDXC x Z)
SD memory Card	Password &	ż	çç	, les	Yes [V1.52]
	Auto oracular	, , , , , , , , , , , , , , , , , , ,	9),	-	tes*
C. de man of the	medical communication of the party of the pa	N= (0) (=3)	Tes [3] [-3]	Yes (3) (*4)	fes [3] (+5)
Monitor Ort		Yes (min) lack)	Yes (mini Jack)	Yes (rate) Jack)	Yes [miin] Jack]
Vandal Presistant	representational control to security being	20.1.1610	20J, IK18	20J, IKT8	-
Water and fleet Resistants		-	-	-	1
Temperatilite	***************************************	3,771+ 01 3,71+	+127 10 -122*	-14°Fb+122°F	+1,6°F to +122°F
Patient School	and other designations of the last of the	12 Y DE / PoE	12 V DC / PoE	12 V DC / PuE	12 V DC / PoE
Dehomidification device		*	-		1
, and			_	-	Smart-Bof.
					20.00

ritens Sopiasion primate met (19 Komernicer (19 Komernicer (19 Komernicer) Komernichen in 1981 milj komernicer Primat Sopiasion primate met (19 Komernicer (19 Komernicer) Kriston Broketti, Komernicer Auflichen in Komernicer (19 Komernicer) Primate met Medical Primate met Me

Scorer Scorer Vales Code Va	CHYNE I GOO CHYSERGITI WASSERITE 18 H05 18 H261 JF65 18 H	CONVER 1000 WINSPRESS BENUMP 12 MES 1	Orvie 10 Wysłajia
on the state of th		CONVE 1 600 WW-57H531 GENUSHP 1/2 HK31 GENUSHP 1/2 HK3 1/2 KK41 PR6 1/	Onvie 16 WV-SFH311A
onemetries defines defines defines		BBJ x 60.91 MUNICH SHEET SHE	Onvirio WW-SHUTLA
		12 ACS1 WW.5FR531 WW.5FR531 12 MG 12 MG 13 MG 14 MG 15 MG 16 MG 16 MG 17 MG 18 MG	WW-SEB311A
11 / 18 kg		1881 × 60.51 1984 (1982) 1 1984 (1982) 1 1984 (1982) 1	
J. P. Cook of the		934 / MLH 5 6 Mariewi 184 185	1/3 MOS
Service of the servic		5 (Pariothio) 6 (Pariothio) 12 (Pariothio)	H.264 / JPES
A PER		6 (Variabla) 165 1920 x 1088	*
A PART AND		Yes 1920 x 1188	s (Variable)
7 Focus		1920 x 1080	Yes
/ BLC	1730 x 940 4675 (773p) 301ps (7.3p) 181ps (7.3p) 481 (481) 3.81 k GF1.3 6.81 k GF1.3		1920×1080[*1]/1280×720
/BLC	6909-1738 3019: 11.3 A93 Enhancet SD 184 (CG) A87 G. SER IX GSF 13	2048 x 1536 [*1]	1280 x 960
/ Fecus A	30 jes (1.3 yež) Edwareck SD Yes (CG) Yes (CG) Edwareck SD Yes (CG) Edwareck SD Yes (CG) Edwareck SD Yes (CG) Edwareck SD Edwareck SD Yes (CG) Edwareck SD Yes (CG) Yes (CG	(1080p) (1080p)	60fps [720p]
/ BLC	The Line of S 10	30(ps (3 MP) (*1)	30fps (1,3 MP)
mution (Fourse)	Yes (100) ABF 6.00 it GPF1.3 0.0007 te (164)	Enhanced SB	Enhanced SO
and Feducial Feducial Annual of	ABF 5.81 k GF1.3 0.0007 to 116x)	Yes (ICR)	Yes (ICR)
to (Numination Color) Cater (Sons sp) BW BW BW BW BW BW BW BW BW B	1.01 x GF1.3	484	ABF
	0,0007 tx [16x]	0,17 to to 1, is	0.13@W10.0
		0,000 lx [74x]	Q.0037 Lr (16x)
	0.0 fz 60£1.3 fw/R1	8,01 tx@f1.6	4.14@41.000
		0.0007 tr (16x)	0.0002 lx (16x)
	(= 2.9 to 10 mm, F1,3	(=2.8 to 9.5 mm, F1.6	for 2.8 to 10 mm, F1.6
	H: 26.6 to 95,1 deg.	H; 32 to 116 deg. V; 18 to 68 dug.	11: 28 to 100 deg. V; 16 to 54 deg.
	#: 26.7 to 95.1 dag.	N. 27 to 91 dog.	H: 28 to 100 deg. V: 21 to 73 deg.
	180 at 181.	-12E(right) to -2400left) deg.	+129 to -240 deg.
	0184-85-00.	-85 ta +85 dag.	-85 ta +85 deg.
Orders Team	3.64	3.3x	3.6%
PRESE COURT	Ty	AT.	\$
BEOGRAPHICAL STATE OF THE STATE	Vac Latraci	(45 ft-aras)	tes (4-amas)
Vita (vitate regulati peracetas)	Yes Ive?	Yes [type2]	Yes
Ven president that president survivory	We ficherski	Yes (B-areas)	facute-8) and
		14	71
Casal Language Anna Casal Casa	racidal (alphaness resonant and arbitely of the	NS No.	Yes
	-		
hadle. Out	s),	Yes	Yes
	6,711 / 6,726 / AAC	6,711 / 6,726 / AAC	6.711/6.724/AAC
Audio Beterrior Alarm		¥85	Yes
EG.	Yes (\$000 x 2)	Yes (SDXC)	Yes (SDXC)
SD memory Card After Description	Yes (V1.52)	Ē	Yes
	Yes	Yez	ŭ
-	Yes 3 M.	Yes (3) [-2]	18:(3)(7)
CARTINAL TO	YesIniniaxi	Yes Imini Jacki	Yes (mind jack)
FDRIEST US.	The second of the second control of the seco		-
Vandal Kesisiani		1	-
Water and links resistance	±12°F to ±122°F	+14°F ts +122°F	+14~F10+122°F
100 SCANNIC CONTRACTOR CONTRACTOR CONTRACT	10 A 70 D X	12 V BC / POE	12 V DE 194E
Caron de la company de la comp	_	_	
Abor Emerican	Smart-Bar,		1
	Constitution of the Consti	See mans 44.47	See pages 46, 47

360° monitorno

360° monitoring. Mechanical shutler

360° monitoring

360° stanierm, Exectis-13, Exectis-13, Exection-Swisseria, Ece-Robyny-Swisseria)

360° menitoring, ENSO155-13, ENSO121, DINSS10

See pages 46, 47

+14°F to +122°F 12 V DC / PoE

+12°F in +122°F 12 V DC / PaE

Ceiling / Wall / Mann backet:

• 14° F so + 12° F

basking / Taipol: +14° F to +184° F

12 V DC / PoE

-4117-F

40" to +122"! P66 / NEMA CK

Water and Dust Resistance

Manitor Out Yandal Resistant

P66 / NEMA CX

S83, IK18

12 V DC / PDE

12 V OC / PeE

Debumidilication device

Power Source

Semporations:

Other Functions

Tes (3)113

Yes (3) 1°4)

Yes (ACC) Yes (3311*3) Yes (ACA)

Tes (3) [*3]

Yes (ACC) Yes (3) 1-21 Yes (9CA) 501, K10

Passwert 3 Alter Detection Audin REC

SD memory Card

20), IK18

Yes (Sexc)

Yes (50xC)

Yes (50XC)

Yes (SDXC)

NETWORK PRODUCTS

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Vale Code: Val	PAMERA 1975				
See Color 1,0 MS			1	WEW	WEW
Victor Color	Appearance		D		
WAS PER WAS PER WAS PER WAS PER			OnviFig	OnviF100	Onvirio
Market Calests			WV-SFK310A	WV-SFN130	WW-SFN110 HD228P
Mace Color: 1,24,1/266 1,244 1,244 1,244 1,244 1,244 1,444 1	Sensitive	Annual Control of the	1/3 HOS	1/3 MS	1/3 MGS
1,224 mill chose 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Video Codec	H,264 JPES	1254 / PEG	H,264 / JPE6
Stand Coding 1, Page		H.264 multistream	-	7	7
Sizera Colores Fish 14.7	Cadec and Transmission	JPES mutti stream	6 (Variable)	6 [Vorinbio]	b (Variable)
14.19 17.50 17.5		Smart Coding	sa),	res //es	Yes
173 1739 1-469 2049 1529 1424 1424 1424 1424 1424 1424 1424 1424 1244		16.9	1920 x 10800(*1) / 1280 x 720	1920 x 1080	077 x 0853
FEEC Signe 13-18 13-1	Max, Resalution		1280 x 948	2048×1536	1280 x 968
FFEE	Use 'Che		A01ps (7.20pl	3Mps (3MP)	30fps (1,3HP)
Separation Sep	GMar, Resolution	PEG	30fbs [1,3 MP]	30fps (3HP)	30(ps (1.3MP)
Frenckeish Topic Residue	Super Benamic / WDR / BLC		Enhanced S0	Super Dynamic	Saper Dynamic
Financiask Clin of Financi	Dry Kinht		'tes (Becorica)	Yes (Flectrical)	Yes (Electrical)
Care of Call to GP Call t	ABF (Janta Back Focus) / Facus	Assist	Focus Assist		1
Cour Stock word Count		Color	0.01 to GPT.6	6.1 k GF.3	E24@4703
Sign		Cafor (Seas up)	1,0007 tx (16x)	E,007 (x (16x)	0,003 tr (16x)
MW Status up D.0005.1 [cb] 10.2 Bara. P.2.3 10.2 Bara. P.2.	Hin. Illumination	B/W	0,008 tx @F1,6	0.06 lk @F2,3	0.03 tr 40F.23
14.7 14.2 to 10 from 17.3 14.2 to 10 from 17.3 to 10 from 17.3 14.2 to 10 from 17.3 14.3 to 10 from 17.3		BM (Sens un)	D.12005 tr [16x]	0.005 (x (16x)	0.002 tx (16x)
14.19 1.15 To 10 to	lans		1= 2,8 to 10 mm, F1.4	(s.2.8mm, F2.3	f= 2.8nm, F2.3
1.23 P. 1.23 is 10 library P. 1. 1.34 1		14:9	E. 28 to 108 deg.	II: 188 deg. V. An den.	H 180 dep.
The color of the	Angular field of view		H: 28 to 100 deg.	H: 89 deg.	R. 100 deg.
Till			V: Z1 to 73 deg.	- Ranger	End of the Addition
Filt	Adjusting Angla	Pan	+120 ta +240 deg.	-20 tip +40 GCJ.	and the state of t
Per Learned Per Learne		110	-15 to -00 -	-San ac-Alas-	_
	Upilical coun		A44.	17	42
Test Benefician Vivi) Indicatescies settences	United touch		Ye (6-areac)	Yes (4-areas)	Yes (4-areas)
Test	With Butollicent VMD Jufecte	wisher sufficient	, , , , , , , , , , , , , , , , , , ,	Yes (Type?)	Yes (Type2)
In Commercian In Commercia	SUM		Yes (8-areas)	Yes (8-areas)	Yos (8-areac)
in (Line)	Max, Cannection		14	18	91
Transition MTG Tree Nea		in (Line)		f	1
One Confect		la (Built-an MC)	Yes	න්	Yes
Codes	Audio	Đự	-	Ŀ	1
Accide Detection Alarm Year Year Year State Year Year Year Year Accide Detection		Codec	6,711/6,724/440	6.711 / 6.726 / AAC	6.711 / G.725 / AAC
State Yes Yes Yes		Andie Detection Alarm	Yes	Yes	Yes
Proposed & 153 154 Audie REC 154 154 Audie REC 154 151 Audie REC 154 151 Audie REC 154 151 Audie REC 154 151 Audie REC 154 152 Audie REC 154 152 Audie REC 154 152 Audie REC 154 152 Audie REC 154 155 Audie REC 155		Slot	Yes (SDRC)	Yez (SUXC)	Yes (SDXC)
Audion REC Year Year	SD memory Card	Password &	Ñ	ž	Yes
Yea (3)(***) Yea (3)(***)		Audie REC	sa).	le:	Yes
1 tas famin jack	Exercise (10	alan property and a second contract of the second	Yes [3] [*3]		
127 to 127 to 187 to 187 to 187 to 188 to 18	Hanitar Out		Yes (mini Jack)	1	1
1275 - 1275 - 18	Vandal Resistant		ı	-	1
12 V OC P P E P P E P E P E P E P E P E P E P	Water and Dust Resistance		age.		1
12V0C/P0E P0E P0E P0E P0E P0E P0E P0E P0E P0E	Temperature		4 14°F to +122°F	+32°F to +104°F	+32°F to +104°F
	Power Source		12 V DC / PaE	908	PAE
	Debumidification device		ı	1	_
18A	Other Functions	and the second s		1	
	Nounting Options		D, by safet ans	184	184

150 r 1800 150 r 1800 150 r 1800 s 1800 1800 r 1800 s 1800 s

1920 x 1060 H.244; 1260 x 940 JPE6: 2048 x 1536

305;5 (1000p) 15(ps (3.N.P) / 301pc (1000p) Super-D Yes (Electrica)

30(ts (1080p) 15(ts (3 MPI / 30tp (1080s)

Saper-D Yes (Electrical)

H.264: 1280 x 968 JPE6: 2048 x 1536

E3# F284

Max, Resolution

Mar. FPS WHax, Resolution

1920 x 1088

Onvie i 6 WV-SF438 HB1080P 1/3 MDS

Onvir | O WV-SF448 (B) Weft (B) Work (B) Wook (B) Wook

Onvirigo WV-SPN480 48 Engline 17 HOS H284 / JPEG

Onvie 160
W-SW480/SW484411
BD1010P
1/D10S
1/D10S
H-ZM1/PE6

Onviriee WASPV81

1/2 NOS H.264 / JPEG

Video Corter H.264 mottl stream JPEG mett Stream Smart Cooling

Codec and Transmission

() ;

Appearance

H.264 / JPEG

15 tv @P£2.4 11 tv @P£2.4 12 tv @P£2.4 14 0.837 mm, F2.4 14 180 dug.

1,5 to 40 F.2.4 0,1 to 16 col 1,2 to 40 F.2.4 0,08 to 16 col 1+ 0,837 mm, F.2.4

Color (Sers up)
BIM (Sers up)

Min. Humination

DayMight ABF (Auto Bock Fneus) / Focus Assist Super Dynamic / WBR / BLC

Ξ

Angutar lield of view

Adjusting Angle

Optical Zeom

Digital Zoum

H: 152 dog. V: 176 deg.

Yes (2-ares)

Yes (2-areas)

VAI) (Value Nation Benetities)
I-EVIO (Intelligent VAIO) (wherheadin softward)
VIIS
Was: Consection

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4x
4x
fre [4-read]
fes [19943]
fes [8-tread]

4x Yes (4-areas)

Yes Yes Yes 0.711/0.726

Yes Yes Yes 6,711/6,726/AAC

Yes 6.711/6.726

6,711 / 6,326 / AAC

in I line]
In I Built-in MCI
Dui
Coute
Audio Detecton Alarm

ojes

les [4-areas]

rij vačnog iskiji nese krzisku reni (?), kan jel lingkipit i, kiz im nepstansk Ame is jikizo dat Ausr is jiki Bosliki is vol Til Aun is liso dre zipazmel, data di Tilsten Gal, Azar da Jisti Oal(li Krzee)

See pages 46,47 Maunting Options

PLESOLS TRACKFRÖDET, LEGENSTOLFFERSOLFFERSOLFF, INTONNERS 173 kan pålindrigt in den informindt den nådelt ned for medd FF kan bl. kan bliften bod i knordfers forfet in and i FL, kren kliften som ik kom bölden soll, kan kliften bod i knordfis trend

NETWORK PRODUCTS

114 (53)

Panasonic

AMESS PRE

Onvir i GO Wy-SpWdf11 113405 113405 A34./ PE5 i 6 (brishe) free y0 126 y y0 12 f= 2.8 to 10 mm, F1,3 Motorized H: 28.4 to 96.2 day. V: 16.7 to 52.3 day. H: 28.4 to 96.2 day. V: 21.4 to 71.0 day. Yes 6.711/6.716/AUC 1966/18746 CX -40°F to +122°F 12 V DC / PoE Yes 4x Yes (4-areas) Yes (1ype2) Yes (8-areas) 14 Yes Tes (SDXC x 2) See page 53 Yes (AAC) Yes (3) (*4) Yes (RCA) Ą 题 : ħ WW-SPW631, HATEGO HATEG (= 2.8 to 1g mm, F1.3 Motorized 18:5 C.711 / G.726 / AAC 16:5 Tes (SDXC x.7) H. 30.9 to 185.4 deg. Y: 17.4 to 57.3 deg. H: 25.8 to 86.4 deg. Y: 19.3 to 43.9 deg. 6 (Variable) Yes Yes 1920 - 1889 2045 1 1080 2045 1 1080 2045 1 1080 2045 1 1080 2045 2 1040 2045 2 1040 2045 2 1040 2045 2 1045 2045 2 P66/NEMAXX -48°F to +122°F 12 V DC / PoE Yes Yes (AAC) Yes (3) (*4) Yes (BCA) See page 51 3 Onvir I GO WW-SPW6JILT HOWGO UJ MGS HZ64 / JPE6 6-9 to 22 mm, F1.6 Motodzed H: 13.8 to 33.5 deg. H: 7.7 to 10.1 deg. H: 11.5 to 27.4 deg. V: 0.6 to 20.1 deg. 1970 v 1880 7048 v 1534 (*)1 645ps (1980) 305ps (3 MP) Eshanced SD Nes (108) ABF C.68 (* 687 i.8 MP) 919 v 697 i.8 km/RP] 6.711 / 6.726 / AAC 1F64 / NEHA 4X -48°F tu +122°F 12 V OC / POE Yes Yes (SDXC + 2) 6 (Variable) Yes fize (4-arens) Yes (4-arens) Yes (9-arens) Yes (9-arens) Yes (3) [*4] Yes (3) [*4] Yes (ACA) See page 51 ä ä 1 7 Yes 5.711 / 5.726 / AAC [-2] 1-4.2 to 25.2 mm, F1.6 Haterleed Yes (8-sread) Onviriogo WV-SPV781L Akeighe 1/12 NOS H.24./ JPEG H: 17 to 97 deg. V: 9.4 to 55 deg. H: 18 to 181 deg. V: 13 to 76 deg. Yes (3) (*3) Yes (3) (*3) Yes (4) 20., IK19 IPA6 / NEHA CC -49*F to - 122*F 12 Y DC / PdE Tes Butt-in leabe, Butt-in IR LED See page 51 óx óx Yes (4-areas) (2xas) In [Line] In [Gail-in WIC] Out Code: Judio Detection Alarm Sind Shall Preserved 3 Alter Detection Audio REC Vidos Codec H.734 molti stream PRES melti caream Smart Coding 16:9 4:3 H.254 Cotor Cotor (Sens ap) B/W Sens up) Ogjital Zoen YMB (Velco Metlon Ostection) I-AMD (Intelligent VMO) (wiekraesin setuvne) 16:3 ... ABF CAuto Back Focus) / Focus Acsist Super Dynamic / WDR / BLC Vandal Resistant Water and Oust Resistance Power Source Dehumidification device Codec and Transmission Max. FPS O'Miss. Resolution ingular field of view Mounting Options Min. Mumination Max. Resolution SD momeny Card Adjusting Angle Мах. Соллесбая Other Fanctions Dyllcal Zeam Temperatur ppearance

bildem Oak Jame to Mally Guil (of ter each "Lec'squereschan ("ZEDatria DIEC ("ALAumistiConflicta)

785 8.711 / 6.726 / AAC 785 785 | 785 | 500 (C.Y.2) CONVIETO OF WAY-SPU611 BD728P 1/2 HOS H264 J JPE Optional Extension Und Optional Extension Una See page 51 See page 51 0,0007 to (16cd -14"F to -122"F 12 V BC / POE Yes (4-areas) Yes (1ype2) Yes (8-areas) 131 k@F1.4 9.0002 tv [16x] Yes (AAC) Yes (3) 1"2) Yes (REA) ñ | Inspirational | OFWY-SPRA3T | WW-SPRA3T | Wallings | Yes 6.711 / 6.716 / AvC Yes 7 (8.712 / 6.716 / AvC Yes 8.50XC x 2] +14°F to +122°F 12 V DC / PoE Yes (4-areas) Yes (8-areas) Yes (AAC) Yes (3) [-2] Yes (RCA) Š Yes | WW-SPW711AL BO77239 U.O-HUS U. F-2.8 to 16 mm, Fl.6 H: 28 to 192 deg. V: 16 to 55 deg. H: 28 to 192 deg. V: 21 to 74 deg. -188 to +180 deg. -188 to +90 deg. P66 / KEMA 41 -43°T TO +722°T-12 V BC / PoE Yes Bullicia R LED See page 51 0.0 tx coff.6(m/lg) PILIPATED Yes (4-aroas) Yes (9-areas) 1,005 tx (14x) Yes (3) [*2] Yes (3) [*2] Yes (RCA) 3 16.71 / 6.71 / 6.72 / AC Onvir 1 60 WV-SPW531AL Hatcher 10 MOS Hatch IPEO 1-2.8 to 10 mm, F1.6 R. 31 to 112 deg. V. 17 to 60 deg. H. 26 to 91 deg. V. 19 to 40 deg. V. 19 to 47 deg. Gra-90 deg. 3.6x 1246/REMA 4X -40°F to -122°F 12 V OC / PoE Yes 4 (Variable) | Ves 0.0 lx @F1.6(w/R) Yes (4-oreas) Yes (Type2) Yes (B-areas) 0.07 tx @F1.6 Yes (AAC) Yes (3) (*2) Yes (RCA) 'n C.0002 tr (16x) (= 2.8 to 18 mm, Ft.3 Haterized H: 28,4 to 96,2 deg. V: 16,1 to 52,8 deg. H: 28,4 to 96,2 deg. V: 21,4 to 71,0 deg. P66/NEMAX -40°F to +)22°F 12 V GC/P0E Yes Rult-in heater See page 51 0.003 to 40 FL3 ks [4-areas] Yes [1ype2] Yes [8-areas] Yes [AAC] Yes (3) [*4] Yes (REA) æ সূ 3.64 In [Best-in HC] Out Codec Autio Detection Alarm Wither Crotec H.784 multi stream PEB multi stream Smart Foslog 16.9 4.3 H.284 Calor (Sens up) ByW (Sens up) Digital Joan VAD (Video Malion Beteritor) FAHD (Intelligent VAO) (victorian software) Stat Passward & After Detection Audin REC 16:9 3 ABF (Auto Back Focus) / Focus Assist E E Menior Dut Vandal Resissunt Water and Dust Resistance Temporature Super Dynamic / WOR / BLC Power Source Debumlöfflcation device Other Functions Mountlag Options Codec and Transmission Man, FPS CMax, Recolution Angiliar tieks of view Max. Resolution Min, Musmination SD momory Card Adjusting Angle External 1/0 Optical Zoom Арреаталсе

Panasonic

Onvie 16 WV-ST162 VGA 1/4 MGS

Onvirio WY-ST165 BD720P 112 MOS

Onvie i O Wy-Sw772 YGA 1/4 MG

Onvie 16 WV-SW17AW B972BP 14 H08

Onvir 16 WV-SW175 89/28P 1/4 NOS H2M / PEG

Appearance

241.00

Codec and Transmission

NETWORK PRODUCTS

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Appearance		Marketin	Lens not helpfulded	Curvie Go	ODMFIG
		WV-SPN531A	WY-SPN311A	WV-SPN310A	WV-SP105 HQ713P
Series	the first desired and the second seco	(\$ MOS	SDN CH	1/3 MCS	1/3 MDS
***************************************	Video Codec	H.264 / JPES	H.284 / JPEG	H.264 / JPEG	H.264 JPEG
	11,264 multi stream	4	4	,	1
Cablec and Transmission	JPE6 multi stream	6 (Verlable)	6 (Variable)	6 (Variable)	9
	Smart Coding	žąj	şə),	, Kes	1
	16:9	1920 x 1080	1920×1080[*11/7280×720	1928 x 1080 (*1) / 1280 x 720	1290 x 720
Man, Recolution	4:3	9051 × 8702	896 x 88Z1	1280 x 960	1280 = 960
- Che	H.264	4010s (1000p)	Glips (7/20p)	(d)ZZ) sd)S99	3Hps [1,3 HF]
CMsv. Resolution	JPES	30ps (3 MP)	30fps (1,3 MP)	Slips (1.3 MP)	Shps FL3 NP
Sector Denomic / WDR / BLC		Exhanced SU	Entranced SD	Eshanced SU	MC
DayNahi		Yes (CR)	Tes (CRI	Yes (Electrical)	Yes (Electrical)
ABF (Auto Back Focus) / Focus Assist	Assist	ABF	ABF	Facus Aspist	1
	Catar	0.04 k ØF1.4	0.01 tx QPF1.4	0.01 lx @F1.4	0.8 ts @F2.2
	Colur (Sens go)	0,003 tx (16x)	0.0007 lx (16x)	0.0007 tx [16x]	8.85 to (16x1)
Mis, Illuminotion	B/W	0.01 tx @F1,4	7.1760 xi 200.0	3,170 v 800.0	8.4 lx @F2.2
	B/W Sens up	D,0007 tx (14x)	0.0002 (x [16x]	0,0005 kr (16x)	0.03 to [16x]
Sual		CS Mount	CS Mount	CS Hount	1=3.54 mm, F2.2
	16:9		444	-	H. 76.3 deg.
Ingular field of wew					H: 70,3 dag.
	2:3	1	-		V: 55.4 deg.
	Pan	-	1	4	1
Adjusting Angle	III	-	1	1	1
Optical Zeom		1	*	1	-
Digital Zaem		X	KŞ+	3	X7
VMD (Video Mation Detection)		Yes [4-aread]	Yes (4-areas)	Yes (4-sreas)	Yes (4-oreas)
LVMO (Intelligent VMD) [w/extension software)	ension software)	fes llype2)	Yes [Type2]	Yes (Type2)	***************************************
VICS		Yes (B-areas)	Yes (0-aross)	Yes (8-areas)	Yos (1-aras)
Мах. Соплосбал		7,1	14	17	14
	in [Line]	, ,	2 2	I	-
	la (Bullt-in MC)	*	1	Yes	,
	Dut	Yes	វិ	,	1
	Codec	6,711/6,726/AAC	6,711/6,376/AAC	6.711/6.776/44C	-
	Audio Betection Alarm	Yes	Yes	SE)	ı
	Stei	Yes (500C)	Yes (SDXC)	Yes (SOXC)	ž
SO memory Card	Password &	ñ	sal	şş	1
	And Defenda	Yes (64C)	Yes (AAC)	Yes [AAC]	1
External (ff)	Halleston property and the second property and the sec	Yes 3 +3	Yes (3) (+2)	Yec (3) 1-3)	1
Gottler Det		Yes (RCA)	Yes (RCA)	Yes (RCA)	1
Vandal Resistani		-	-	*	-
Water and Dust Resistance		1	1	1	ļ
Temperature		+14°F to +122°F	+14°F10+122°F	+14°F to +122°F	+32*F to +104°F
Power Source		12 V DC / PoE	12 V BC / PoE	12 V DC / Paé	12 V DC / PnE
Dehymidification device	La contraction de la contracti	manaran manaran de de la deservación de la deservación de la deservación de la defendación de la decembración de la decembració			i
Cotton Establish		1	1	1	1
BICA FURNISHS					

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9.6 k 0522 9.5 k 0522 6.5 k 0522 6.5 k 0522 6.5 k 052 6. 155 ms. 17.2 7. 50 eq. 7. 50 eq. 7. 50 eq. 7. 50 eq. 4. 50 eq. 5. 60 eq. 4. 50 eq. 5. 60 eq. 4. 60 eq. 4 -37°Fts +184°F 12 V DC / PAE MAY 340
BBB x 380
BBB x 380
300ps (5VGA)
300ps (5VGA)
REC
Yes [Electrical] Tes Yes Yes 6,711/6,78 785 (3) [1-1] Fes 1 12 ₹ ¥ 10.5 to 67.2

10.5 to 67.5

10 1286 x 728 1286 x 940 366s [1.3 MP] 300ps [1.3 MP] 81.C 7 ms [Electrical] Yes Yes 5711 (6.77) 0.05 to 607.2 0.05 to 10.05 to 1P55 -4°F to -122°F 12 V DC / P0E Yes Yes 6,711/6,734 Tec.[3][1] [5s 16 to 6712

10.00 to 16 to 6712

10.00 to 16 to 6712

10.16 to 671 Wareless (11 n/b/g) Yes Yes 6.711 / 6.274 1280 x 728 1280 x 960 30fps [1.3 MP] 30fps [1.3 MP] 8LC 10s [Bactrical] 15.1 w 672.2
15.1 1280 x 728 1280 x 728 30 ps [1.3 MP] 38 ps [1.3 MP] 90.2 Nes [Bucenical] PS5 -4"F to +172"F 12 V DC / PsE <u>%</u> Han Bright Brigh in (Batt-in 402)
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Meeuting Ophienss Number of Preset Positions Angular field of wear SD memory Card Max, Resolution Patrol Auto Tracking 368 Pan-Rip andio.

[11] Association (RESEAUTION) demonstrate (New Park)

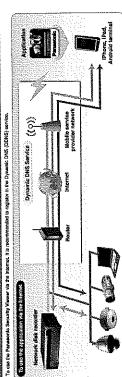
SOFTWARE and ACCESSORIES

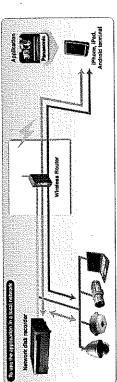


Panasonic Security Viewer App Classing

Panasonic Security Viewer is a application that can view the images

By connecting a terminal to a 36/46 or wheters LAN IWF-FI), it is possible from 1-PRO SmartHD Seines Recorded images stored on recorders. To view the images from canners, and recorded images stored on recorders. INJ-WATGO, WILL MICH SET STORED AND ST





APE is nequent to register in Dynamic DNS Service and configure the satings of the router.

*Countried the Personne Servinth Viewer spokesation on the Quodan Play" store, Apple App Store.

*Countried the Personne Servinth Viewer spokesation on the Quodan Play" store, Apple App Store.



Live image: Live images from the network carrieras connected to the incorridor Publing back conducted images. To play back the images shows on the microfor 1 secondary payed layer for american the intention of the public back on the time and 1 time and dates soarch: To search the images to play back based on the time and date

Network cement Network cement (Recolution punitat control (Recolution materia comes, baraing/illsing, 200m, pinsel position switchover 1 beyonde on his network cemes traction.

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£	Panagonie Socurity Viewer version 2,1	Android™ OS 4.0 is recommended.	h Download from the Google Play** store.	End of June	Dperation chack terrainate Panasonic Toughpad FZ-A1, JT-B1,	
Outline of the application	Application name	8	How to get the application	Date to start the service	Operation chack termina	

Download from the Google Play " store.	End of June	Panasonic Toughpad FZ-A1, JT-B1,	Galaxy S2, Galaxy S3, Galaxy S4	n from here.	http://security.penssonic.com/pes/security/psv/sndmid/kndm.
How to get the application	Date to start the torylog	Operation chack terminads		Download the application from here.	Android ¹⁸ http://secu

	Application retine SS How to pail the application Date of sont the in-view Oversides chiefe terripmen	Pensasonic Security Viewer vention 2.1 IOS 5.1 or liate Covenidad from the App Store. Extra claim Phonese, Phonesis, Pensas Phonesis, Phonesis, Pensas
Ī	Soumboad the application from here, [BisquestPost http://wee.urity.panason	Sownload the application from here. Prome and attended to pay the physical prometer of the prometer of the physical phys
	İ	

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

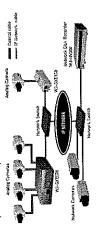
Panasonic

ट्रिस्टा एंड ग्रीडियोण of analog प्रशासन्तर

A CSF H.264 Video Encodor	WJ-takesuu	112 V OC or PAST	Time.	
ENCODER	 Analea comeras can be connected to the IP notwork simply by connecting them to the encoder. 	 A maximum of four analog cameras can be connected to the WV-GXEGO. 	and one analog comers can be connected to the WM-GXE106.	 Video captured by analog cornerus can be saved to a recorder installed on the 4P network

Basic System Connection Example

in the same way as nebyork cameras.



1 CII H.264 Video Encode

CHEST AND OUVIE 18 WJ-GXE100

RA 43.5 or (19 led)
Rath Food Based
WY-0204/25
Hor mounting three

Intional Accessory

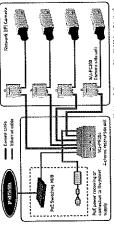
COAXIAL LAN CONVERTER Effective inflication of cabing

The concet cables of existing analog carreras can be used for expanding the reach of the IP network

Camera side unit
WJ-PC200

Coaxiel - LAM Converter with PaF function

Basic System Connection Example



*Werk Polis functions 500 m | 1,640 feet 5 washad/Mithout Poli functions 2 km (6,56) feet 8 inches

Cognetal LAN cables can be used up to distances at 2 km.

Depose ten that the Europhead to POE camerous for altisances of up to 500 m. PoE+ camerous for altisances of up to 500 m.

Poet ten to 10 500 m.

Network Video Decader

1-channel tectivor side unit WJ-PR201

WJ-PR204



Optional Accessory

Rack Moont Connectory Filting

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17 YEC, 100 F-249 VA. adaptar amathali Mutti Channel High Definition Video Decoder

WJ-6XD400

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EM SIZE on 119 inch!
Rack Hatert Brades:
WW-0206/15
Street Brades: Electric on [19 has]

Ruck Hauf Bracket

WW-Q204/2S

Ilei ze dresp due me schools - Up to \$55 cameria, including camerias contracted to the LPce Network
- Work Encader Violas (\$250 Cameria)
- Hold interlease camparing 1,500 to 1,500 cape; since
- Hold interlease camparing 1,500 to 1,500 cape; since
- Hold interlease camparing 1,500 to 1,500 cape; since
- Each of Viola images can be acquired at 25 morests.
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EMBEDDED RECORDING SOLUTIONS AND VMS

Panasonic

Network Disk Recorder 0070N-CM

FZE V AC: NTSC, 270-240 V AC: PAU







- H.ZK,MPEG-4 and JPEB multi latmat i bennected and recorded [Video and Aaddol vig Disk Servick senemes, and be connected and recorded [Video and Aaddol victors] bennected to the connected with the property of the connected service of the connected service of the connected service of the connected service of the connected formation that seals in the natural and the WI-HDEAD operand Entractor Units each with HDD dots.

 RAIDS, Encheticed OS, Data encryption for telebality
 optional HDD. ENTRY SERVICE (THE HDD Connected 200).

 I'm HDD Connected 200. 218 HDD Connected 200.

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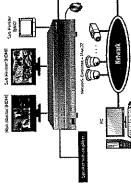
NTSC model



Additional Camera kit : WJ-NVE30

Nard Disk Chansion Bet. 1413-1402 640

Орбовый Аселевону



Exxy Operation and Setup without PC

Up to 32" I network cameras can be connected and recorded.

CHART COVIETO

TROUGHEST, ZELY-740 VAC: PAUS

Network Disk Recorder

WJ-NY300

Anthers Beaner mellener or W3-NVF30

Additional Business Intelligence Kit NVF20 is a licenser kit intended to improve the usefulness of Network Disk Recordor WJ-AV200, MJ-AV200.





• New statistical processing functions such as "People counting" and "Face matching / Age & Gender Judgment"

* The number of chicked human faces can be despised on a seal calculated human faces can be despised on a seal calculated are promised by 192 5, general ris a facility of you of specified. Imp panel, * Age destination grounds are displayed by separate calcules.

• The constitution grounds are displayed by the particulation and the calculated are the constitution are and be closed or on § SML/SQC premory cand or on a PC corrected over a tribworth.

e CSV file: A file that can be eithed using a spreadthree: colleans week no Microsoft?" Office Excel of

* To use this product it is an extension to plate

Server based recording and video management platform VIDEOINSIGHT v6

Scalable enterprise VMS solution that captures, manages and stores video surveillance across a network - on a single or multiple locations - and supports the broadest range of IP and analog camera models. Video insight is the perfect solution for multi-facility configurations including schools, universities, hospitals, healthcare providers. law enforcement and SMBs.

NO LICENSE REQUIRED FOR SELECT PANASONIC CAMERAS

Unlimited Video insight software license is available with the purchase of select Panasonic cameras manufactured after October 2014.

SURVEILLANCE FROM ANYWHERE

Monitor Station, Web Client and Mobile App share powerful features that allow you to access live and recorded video no matter where you ere.

SUPPORT FOR 3,000 CAMERAS FROM 100+ MANUFACTURERS

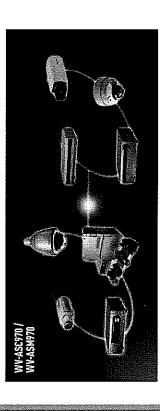
WIDE ACCESS CONTROL INTEGRATION

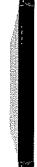
Video Insight supports single and bi-directional integration of access control alarms from the leading vendors.

SUPPORT FOR OVER 130 ENCODERS

Integration to over 130 encoders so that our customers can affordably convert analog-to-IP and maximize the use of existing resources by turning their analog video system into a network video system.

MANAGEMENT SOFTWARE





PMPU3000 @ TENTED IP MATRIX APPLIANCE

- Easy and smooth integration from analog to IP system
- Flexible system design: analog, IP and hybrid analog/IP
- Up to 64 recorders, 1,024 menitors and 2,048 cameras (in case with encoder) can be redistored.
- Camera/sequence/monitor selection, camera control and recorder control can be made with the optional system confroller WW-CU950

 Up to 64 ND400 recorders can be registered as stantity recorder for backup purpose
of serious problems on main recorders Redundant function supported fredundant function can consist of two WV-ASC970 servers as main server and standby server?

Supported recorders; WJ-ND406 series, WJ-ND300 series, WJ-ND200 series, WJ-NV200 series, WJ-HD300 series, WJ-RT416 series, WJ-HD616/716 series

WV-ASM970W

IP MATRIX CLIENT SOFTWARE

- Multimonitor option enables simultaneous use of operation screen and monitor screen [1 / 4 / 7 / 9 / 10 / 13 / 16 split) on a dedisated manitor; two-monitor operation is also available
- Up to 30 ips/camera can be displayed in 16 spili screens in MPEG-4.2 Mbps mode (depending on the camera, camera setup and PC performance)
- Bp to 38 its/camera can be displayed in 16 split screens in H.244 1.5 Mbps mode with VGA (depending on the camera, camera setup and PC performance).
- * Amage resolution dynamically changes depending on the screen mode: VGA for quad screen, QVGA for 16 split screens, erabling aptimum network usage (depending on the camors mode)
 - \star Decoder mode supported (WV-ASM97DW can be used as PC-based decoder instead of WJ-GXD480)
 - WV-ASE90ZW: Max, 16 screen x 4 monitor support

If Matrix Client Saftware WU-ASM979W

Ethernet System Costroller with 30-Juystick and Joys'Sbuttle

SYSTEM COSPONENTS

NV-ASM200W

I-PRO MANAGEMENT SOFTWARE

Supports 16.9 video stream and 16.9 HD monitor; displays 16.9 and 4.3 videos from IP cameras on the same screen

Up to 16x 38 ips/camera images can be displayed in H.264 1.5 Mbps mode

 Software License Products

 WW-SAETOBW: Face Detection XML
 WW-SAEZOBW: WMD

 Fisheye image correction/de-warp

- * H.264 recording data in the SD/SDHC memory card can be downloaded Convert file format from n3r (proprietary formal) to MP4 and WMV
- Up to 100 recorders, 64 encodes 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 WV-ASK/200V (the number of cameras
 depends on the recorder and encoder)

(System Controller WV-CLP50 and monitor displays are optional.) WV-ASM200W with WV-ASE201W

Panasonic

WV-ASE201W / ASE202W / ASE203W / ASE204W / ASE205W / ASE231W

EXTENSION SOFTWARE

- * WW-ASE201W; Three monitors, system controller (WW-CU950) support
 - WV-ASE202W; Max, 64 screen support
- WW-ASE205W: Increases number of recorder registration
 WW-ASE205W: Image compensation (Fogl/Snow)
 WW-ASE214W: Client for WW-ASF900W

FACEPRO – WV-ASF900W

FACIAL RECOGNITION ANALYTICS PLATFORM 🗃

FACIAL RECOGNITION ANALYTICS PLATFORM RUNHING IN THE VIDEO SURVEILLANCE SYSTEM

Add-on face matching function; Add the face matching function by simply adding the necessary devices and the software

FACE MATCHING

Up to 20 cameras can be connected to each server

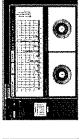
- Face images that the camera detects are stored and can be searched later
- By searching the face database, you can display the results of each camera in chronological order and find movement and location of persons

 Bouble clicking on facial alarm notification can play back video segment on the control monitor 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

Specify camera or date in detected face images and display the result in the list in similar order

PEOPLE COUNTING, AGE AND GENDER STATISTICS

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



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FALEPRO® SYSTEM COMPONENTS		270 Samulak Sansas

WILLS DENNINGS

Panasonic

CHANGE CHANGE		Ustabush	ROMAN
Appearance			
		WV-CW594A	WV-CS584
Sensor		1/4 type intertino transfer CCO	1/4 type interting transfer CCD
Resolution	Hurizontal	850 TV Lines	250 TV Unes
Super Dynamic / WDR / BLC		Super-8	Super-D
Day/Night		Yes (ICR)	Yes (ICR)
Focus Adjustment		Auto Focus	Auld Focus
Built-in IR LES		-	
	Color	458	0.5 k
Kin. Maerinalian	Catar ISens up)	A 4150	A9100
	B/W	N 1870	A700
	B/W (Sens up)	a) ELDB13	A E100.0
Lotts		{-3.3 to 119 mm, F1.4	14-3,3 to 119 mm, F1.4
Angular fleid of vlove		H: 1.7° (Tole) to 60.2° (Wide) Y: 1.3° (Tole) to 46.3° (Wide)	H; 1,7" (Tete) to 60.2" (Wide) V: 1,3" (Tolo) to 46.0" (Wide)
	Pan	360° endless	360° endless
Adiesting Anole	置	-5° to 185° (horizontal - vertical - horizontal)	-6° to 165° (florizental - vertical - losizontal)
	Optical Zotes	36x	mannandermanniramentrionetettebedettebedettebedettebedettebedettebedettebedettebedetspeleitebedetspeleitebedet
	Digital Zeom	SBX	23⊪
INIO (Valco Metlen Detection)		ũ	Y85
-VMB (Intelligent VMB)		Scane Ellange	Scene Change
Camera bitle (OSD)		Yes	/ss
External 1/0		4 inputs (ALARM IN 1 - ALARM IN 4) 2 delputs (ALARM I AUR), GW I ABZZI	4 inputs (ALRBM IN 1 - ALARN IN 4) 2 outputs (ALARM / ALIX), BW / ALIX?)
Vandal Resistani		AND THE RESIDENCE AND THE PROPERTY OF THE PROP	1
Water and Dust Rosistance		1956	
Dehomlöllicatlan device		_	1
Temperature		-58°F to +122°F	+14*F to +;22°F
Power Scenze		TAYAC	3,4,52
Other Functions		WV-CNSPLA : Rain wash casting	
	Smoke Damé Cover	and the state of t	Smith Date Caver W4-525A
		Wati Mouri Bracket WW-1722A	Chelling House Bracket WW-0165A
			Embedded Calling Home Racket We-GTEA
Opliotes	Brackai	Colling Kount Bracker VVI-0778	Pentiant Would Brackel W-42177A
			WAI Beart Bracket WV-G1188
	Reater Unit	I	l
	T		

34.00% E428	NITTOKE	1875	MANAG
ANGOLE F VINTEDOL	***************************************	7	TOTAL
All the second of the second o	NEW SR CONTROL		
	WV-CW6345, WV-CW634F	WV-CF624	WY-CF634
Sensar	1/3 type interline transfer CCD	1/3 type intedine transfer CCD	1/3 type intertine transfer CCO
Resolution	740 TV Lines or more	25a) V (62b	650 TV lines
Super Dynamic / Wilk / BLC	Super-D	Super-D	Super-0
DaysNight	Yes (ICR)	Yes (ICR.)	Yes (ICR)
Focus Adjustment	ABF	Manual	-ABF
Built-in IR LED	1	-	1
Chipr	N 80,6	0,08 lx	0.08 tx
	A MEZA LK	£.0025 br	0.00251x
Min. Hamilication BiW	X1 000 T	0.008 ts	1308 tx
BIW (Sens up)	X1,72000'0	N CONTE	xi E0003
[ets	15.3810 & J mm, FLA	1= 2,8 to 10 mm, F1.4	Fa 2.8 to 18 mm, FL4
Angelar field of view	H. 33.6" [Fetel to 74.9" (Wide) V: 25.2" [Fute] to 55.7" [Wide)	H: 27.6" [Tele] to 100.2" [Wide] V: 20.7" [Tele] to 73.8" [Wide]	H: 27.6° (Teta) to 100.8° (Wide) V: 20.7° (Tete) to 73.8° (Wide)
Pm	±\$719°	180° to -170°	1M* ta -170*
置	- H-2-6-4-1-10-10-10-10-10-10-10-10-10-10-10-10-1	-0164	-BAT
Adjusting Angle Epical Toom	11x	1.6x	3.6x
Official Zeam	Ä	×	<u>م</u>
VMD (Video Mation Belection)	28/	Sa),	Yes
L-VMD [Jatolligent VMD]	Scene Change	Scene Change	Stene Change
Comera bite (050)	ž.	ea),	Yes
External I/O	1	1	and the same of th
Vandal Resistant	IEC 60068-2-75 test Et, 50J	1	-
Water and Dust Recitifance	9941	-	-
Dehomidification device	1	1	i.
Темрегалиге	+14°F to +140°F -30°C to 60°C (With optional heater)	3,22t+ 01 £a}1+	3a221+03 3a⊁1+
Power Source	24 V AC or 12 V BC	24 V AC or 12 V DC	24 V AC 51 72 V OC
Other Functions		1	
Smoke Borne Care	Smake Done Coves WP-CTMKSA	ı	l
	Nount Bracket Itin WP-CNS24FI WY-4313A	Embadied Ceding Hause Druckel (Satumile) WH-01748	Embedded Celling Meant Razion (Soli wahle) VV-01748
Options	Embadeal Colling Notal Bottel Wrights	(C	- Comment
	Heater Bink WV-CWSHA		
Heater Unit		l	1
Mounting Options	See pages 46, 47	Ct, ,b+ saget ad2	See pages 44, 47

Panasonic

MODEL / UNIDED			NUCOR		BUTOODR
Appearance					
		WY-CF344	WY-CF354	WY-CF314L	WY-CW314L
Sensar		1/3 type Intertioe transfer CCO	1/3 type intertine transfer CCII	1/3 type intertine transfav CCD	1/3 type inteding transfer CCD
Resolution	Henzontal	658 TV Unes	22 N W 1023	650 TV lenes	650 TV lines
Super Dynamic / WOR / BLC		BIC BIC	31C	attabahan mamanan mama	318
Day/Atlght		Yes [Electrical]	Yes (Electrical)	fes (ICR)	Yes (ICR)
Facus Adjustment		Focus Assist	ABF	Я¥	安
Built-in IR LED		-		fes (20 m)	Yes (50 m)
	Colar	138 k	N 80'0	7900	III K
	Color (Sens up)	a sage	0.0075 kx	6,025 k	2,0025 km
Mile, illustrimetupn	BAN	LUSU	A 20.0	Dis (with IR LED)	O tx (with IR LED)
	BAM (Sens up)	n 93000	x) \$EQCO	Γ	***
Leas		1=2.8 to 10 mm, F1.4	[+ 2,8 tp 10 cm, F1,4	f = 2,8 to 18 nm, Ff.3	t = 2.8 to 10 mm, F1.3
Angular field of view		H: 27,6° (Tele) to 180,3° (Wide) Y: 20,7° (Tele) to 73,5° (Wide)	H: 27.8° (Tete) to 100.3° (Wide) V: 20.9° (Tete) to 73.4° (Wide)	H: 27.65° (Tete) to 100.8° (Wide) V: 28.75° (Tete) to 73.65° (Wide)	N: 27.65° (Tate) to 100.8° (Wide) V: 28.75° (Tele) to 73.55° (Wide)
	Par	180° to -170°	158* to -173*	18f* to -17f*	
	異	-80s∓	-06=	11075	
Agustang Angles	Optical Zoom	3.6x	3,68	3.èr	3.6r
	Digital Zoom	ZX	***************************************	Ħ	23.
Will (Video Motlon Detection)		Yes	Yes	ES.	fes
LVMB (Intelligent VMD)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Scene Сhанде	Scans Change	Scene Change	Беена Сћапре
Camera title (OSD)		Yos	, Yes	Yes	ře ř
Enternal /0		***	-	1	-
Vandal Resistant		-	-	was desirable to the state of t	esse est established imperiorment to the Medical Production (III)
Water and Dust Resistance		**	1	1	1266
Dehumidikation device		-	1	1	=
temperature		+12°F to +122°F	+1.2°F to +122°F	+14°F to +122°F	+14°F to +122°F
Pawer Source		24 V AC or 12 V OC	24 V AC or 12 V DC	24 V AC est 12 V DC	22 V AC or 12 V DC
Other Functions		1	_	***	we was the state of the state o
	Snake Bone Cover	ı	ſ	i	1
Distriction of the control of the co	Bracket	Embedded Celling Moart Bracker (Sail white) W-01748	Embadae Celing Haun Brachet (Sal white) We-LITAB	J	I
	Heater Unit	-	ŀ	ı	l
Manualine Sustane		Can account 15 77	67 77		

Control of the Contro					
Indean / Outdoor			ON	INSDOR	
		SK OF S	SK •	SK •	SK
Аэреагансе				5	8
		WV-CP630/WV-CP634	WV-CP620/WV-CP624	WV-CP300/WY-CP304	WV-CP316/WV-CP314
Sensor		1/3 type intertine transfer CCB	1/3 type interding transfer DCD	1/3 type intedine transfer DCD	1/3 type interline transfer CCD
Resolution	Herizontal	70g TV Gres	650 TV lines	650 TV Liness	GO IV tines
Super Oynamic / WIR / BLC		Super-0	Super-D	379	Ħ
Day/Night		fes (ICR)	Yes (ICR)	Yes (Electrical)	Yes (ICR)
Facus Adjustment	The state of the state of	ABF	Focty Assist	Fora Assast	Foru Acsist
BUILIN IR LEB	entrada a manete platterin de la constanta de	***************************************	and the second s	Name of the Parish of the Pari	
rammaraman and an	Color	A BLB	XI BB'0	0,08 fx	0.8 k
	Color (Sens up)	1,803 Ex	Sparse in the second sparse of the second se	0.0025 tx	0,0075 kr
Min, illumination	8/4	x3 898°C	0.00B L	0.05 lx	G,608 (x
	B/W (Sens up)	6.0003 tx	A 55005.0	0,0016 lx	0.00025 k
Lens		optional	aptional	optional	aplianet
Angular field of view		1	-	1	-
	Pah	-	1	-	1
Afficial law Confidence	i i	t	١	1	ı
	Uplical Zoom	-	1	1	-
	Digital Zoom	тенежиментеней ТХ	######################################	1x 1	R.
WAO (Video Matian Detaction)		SQ,	SIJ,	भ्र	Yes
I-WAD [Intelligent VMD]		Scene Change	Scene Chango	Scene Change	Scene Change
Camera title (050)		Sal.	ध्या	SI	Tea
External I/O		ALARIN IN : 1 (OFF / ALARIM / VMD PERMIT / BWJ ALARIM OUT : 1 (OFF / ALARIM / BWJ	अंकरान मिं 1 कृद, श्रेष्ठाण चिर्डि कृद	ı	1
Vandal Rosistant		-	-	ŧ	1
Water and Dust Resistance		1	1	-	1
Debumidileztion device			1	1	-
Temperatura		1ª221+01 ±,71+	+1.2°f \a+172°f	+12% to +122%	+14°F to +122°F
Power Source		WW-CP430; 124 V AC WW-CP434; 12 V DC of 24 V AC	WA-CP420; 128 V AC WA-CP424; 12 V BC or 24 V AC	WY-CP300; 128 V AC WY-CP304; 12 V DC or 24 V AC	WA-CP310: 120 V AC WA-CP314: 12 V DC or 24 V AC
Other Functions			***		-
	Smike Dome Cover	ı	ı	(ŀ
Options	Bracket	1	l	Ŧ	1
	Hopter Van	ı	ı	ſ	1
Mounting Options		See page 51	See page 51	See page 51	See page 51

DISTAL VIDEO RECORDERS



HOM: © Uniphier® SD5 Link

are Haro Canister/6000

Mard Dask Extension Unit 19/3-14(2)64.00

RAID Booci W.J.A.ODECSTA Built-in TVD Sirke W.J.AODECTA

PUL Plus Infoctor
IEEE BUZ Jacobise BUZ ERRIGORD

OPTIONAL ACCESSORIES

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

WJ-HD616 [120V AC: NTSC]

- 16 CH H.264 DIGITAL DISK RECORDER
- Boat HDM Full HD 1080 (1720 x 1800) display
 H. A.264 high-profile) codec reduces benchwidth
 Purp to 40% companed with NPEG-4
 Purp to 40% companed with NPEG-4
 Full main unit and three WL-HERGI options
 STG Liek Charamic Liek Hait Intelligent: Person units, each with mire HDD closs



WV-CU950

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

- For smooth operation of Ethernet/PS data interfaced devices, WV-ASM200WWM-ASC970 and System560EX/System560/System560 (WJ-SX150A version 2.0 or higher)
 - Integrated system control: camera, recorder and switcher
- * User-level management and user-assignable buttons is liniversal design for right- or left-handed users

WV-CU650

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

- For smooth operation of PS data interfaced devices and System650/System150 [WJ-SX150A version 2.0 or higher]
- Integrated system control: camera, recorder and switcher
- * User-levet management and user-assignable buttons * Universal design for right- or left-handed users



Panasonic

DANESA AREXENRES	æ		
MODEL	DESCRIPTION/TYPE	COMPATIBILITY	IMAGE
WV-CF5SA	Smoke Dome	WV-SFN2311/6111, WY-SFN310A/311A, WV-SFN531	0
Wy-6545	Smoke Dome	WY-C5584	0
WV-CSSC	Clear Dome	WV-5E588A, WV-SC387A	
WY-CS5S	Smoke Done	WV-SC588A, WV-SC387A	
WV-CR15	Smake Dome	WI-SFR6311/611L, WI-SFR310A/311A, WV-SFR531	()
WV-CW4C	Clear Dome	VM-NW502S, VM-CW504S, WV-CW064S/534S	
WV-CW4SA	Smoke Dome	WY-HW502S, WY-CW634S, WY-CW344S/334S	
WV-CW75	Smoke Dome	WY-SFY631L/631L7/611L, WY-SFY310A/311A, WY-SFY531	()
WV-CW6SA	Ѕтоке Ооте	WV-SW168/155/155MA/152/152M, WV-SF138/135/132	(
WV-07118	Extended Shade Cover	W4-SFV631L/631L/611L/ W4-SW3X, W4-SW5X, W4-SFV310/311, W4-SFV531	\$
WV-CW5HA	Optional Hoster	yw-cheassyw-charesiars	C
		Annual Contract of the Contrac	

		CAN CONTRACT			CAMERA TYPE	4 TYPE		
			8	OUTDOOR VANDAL	AL		INDOOR DOME	
						P	(b) (b)	
MÓDEL NO.	PICTURE	DESCRIPTION/TYPE	HELDER STATE (1918). WAS STATED TO STATE (1918). WAS STATED TO STA	WF-SIMED, WV-SIMED	WY-CW628634F WY-CW546875348	718 <i>CAJS*A</i> JM	WY-SFRANLANN, MY-SFRANLANN, WY-SFRANLANNAN, WY-SFRANLANNAN, WY-SFRANLANNAN, WY-SFRANLANNAN, WY-SFRANLANNAN,	MY-CF500 SERIES WY-CF500 SERIES
WV-Q169A		Indoor Embedded Ceiling Mount Bracket	Yes		Ę			
WV-Q174B		Indoor Embedded Ceiling Mount Bracket					Yes	Yes (Except WP-CF3141.)
PRCM1	(1)	Indoer Embedded Ceiling Mount Bracket	Yes		Yes	A PROPERTY OF THE PROPERTY OF	Yes	, ies
PPMS1		Indoor Indoor Pendant Maunt Housing, Black					Yes [Except WV-SFR631L/611L]	Yes
PPMS18	*	indoor Pendant Hount Indoor Pendant Hount Housing, Beige				1	Yes (Except WM-SFR631L/6111)	Yes
57875d		Outdoor Vandal-resistant Shroud	Yes	Yes	Yes			
5787Mdd		Outdoor Vandal-resistant Pole Mauat	, kes	Yes	Yes			
S787M3d	S	Outdoor Vandal-resistant Corner Mount	S S A	Yes	şə,			
5787MHd)	Outdoor Vandal-resistant Kanging Mount	say,	şə,	<u>78</u>			
5787MMd		Outdoor Vandal-resistant Wall Mount	sa.	Yes	Ş.			
WV-07118	()	Outdoor Extended Sun Shade	Yes		y Ke			
WV-0124	<	Outdoor Shroud Bracket requires WV-0122A	Yes	SZJ.	sa,			
PWM781	(Outdoor Wall Mount 8. Shroud		,,		Yes	/	

			CAMERA TYPE	CAMERA TYPE	
			A particular to the second sec	214	
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-SC588A/WV-SC387A	WV-5C384/WV-5C385	WV-CS584
WV-0117	} /•─ ()	Indoor/Pendant Supended Ceiling Mount		essus nelveri (this jalulusus usessus nelveri (talakk	Yes
WV-0118B	5	indoor/Wall Wall Mount Bracket, Silver		ALBERT AND THE STATE OF THE STA	Yes
WV-0119		indoor/Wall Wall Mount Bracket, White	रुद्ध	emany controlled (1984) the second standard managed of standard	en jehole i di pinente en manne providelt e pinente de manne en
WV-0126 WV-0126A	্জ্ঞ	Indoor/Ceiling Embedded Ceiling Mount Bracket	Yes [WV-0126A]	week by dishely broader transcription of the second	, Yes
WV-0154C	8	Indoor/Wall Wall Mount Bracket— Clear Dome		ķes	
WY-01545	8	Indoor/Wall Wall Hount Brackel— Smoke Dome		Yes	
WV-0155C	C()	Indoor/Ceiling Embedded Ceiling Mount Bracket—Clear Dome		ž	
WV-01555	E	indoorfCeiting Embedded Ceiling Mount Bracket—Smoke Dome		şş.	
WV-0156C	(D	Indoor/Ceiling Ceiling Mount Bracket— Clear Dome		Yes	
WV-0156S	(D	Indoor/Ceiling Ceiling Mount Bracket— Smoke Dome		झ्र	
WV-0157	8	Inner Dome Cover		Saj	
PISMSV		Indoor/Pendant/Clear 5" Indoor Vandalresistant Housing		səx	
PIDV7CN	(§	Indoor/Ceiling/Vandal 7' Indoor Recessed Ceiling	Sa),	**	SZ,

TOTAL STATE		THE BRACKET	A FOR INDUORNAL	HOUSINE AND MOUNTING BEACKETS FOR INDOOR PIT CAMERAS (CONT.)	
				CAMERA TYPE	
				14	ryacitetteraria manararia hadista manararia quantitati della
		A CONTRACT OF THE PROPERTY OF		(3)	
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-SC588A/WW-5C387A	WV-SC384/WV-SC385	78953-AM
PIDV75N	(9	Indoor/Ceiling/Vandal 7" Indoor Recessed Ceiling Housing with Smoke Dome	Yes	Yes	Y65
PDM9		Indoor/Ceiling 9" indoor Recessed Ceiling Housing (Dame not included)		Andreas and the state of the st	, P85
PID9	(0)	Indoor/Celling 9" Indoor Recessed Celling Hausing (Some not included)	, kes	KS)	Ness Year Commence of the Comm
POSMSV		Outdoor/Ceiling — 5" Outdoor Vendalresistant Housing 24V AC to 12V DC Converter		SSÅ	- PARTICIPATION OF A PARTICIPATION OF THE PARTICIPA
PODV9CPTA	4 ()	Cetdoor/Pendan! - †* Outdoor Vancateesscant Deme Hossing with Pendant Mount - Clear/H28	Şəş	Yes	88,
PODV9CWTA	C	Outdoor/Watl – 9" Outdoor Vandalresician Dome Housing with Watl Meunt – Clear/HSB	Yes	Sal.	Yes
POD9CA	(Outdoor/Pendant – 9" Outdoor Done Housing with Pendant Mount, Silver – Cleor/H&&	Sal	Yes	Yes
P0D9CWA	6	Outdoor/Wall - 9" Outdoor Come Housing with Wall Hount, Silver - Clear/H&B	Yes	řes	Yes
P0D9CTA		Butteor/Pendant – 9" Duubor Dome Housing with Pendant Mount, White – Clear/H&B	Yes	ZES	, Kes
P0D9CWTA	<u>C</u>	Outdoor/Wall - 9" Outdoor Dome Housing with Wall Hount, White - Clear/A&B	Yes	Yes	Yes
PPFD9C	4	Outdoor/Pendank – 9" Outdoor Pressurised Dome Housing for Anakog Camera – Clear/H&B			ऋ
PPFD9CN		Outdoor/Pendant - 9" Outdoor Pressurized Dome Housing for Network Camera - Clear/H&B	Yes	ies.	

P. OALITAIAS	 - ()	WV-SW395A WV-CW594A	Yes	Yes Yes	Yes Yes	fes Yes	les les	sa),	हुइ. इ.स.	इन्ह्री	Yes Yes
HOUSING AND MOUNTING BRACKETS FOR OUTDOOR DAY CAMERAS	/Respiration	WV-SW397B Yes	, kes	Zą,	, jes	są	Yes	SS),	જ્ઞ	say,	Ş ə
MOUNTHLE DISAGRA		IRE DESCRIPTION/TYPE Dutdoor Parapet Mount Short, Black	Outdoor Parapet Mount Short, Beige	Outdoor Parapet Mount Long, Black	Dutdoor Parapet Mount Long. Beige	Outdoor Gooseneck Wall Mount, Black	Outdoor Goseneck Wall Mount, Brige	Outdoor Genseneck Wall Maunt, Silver	Outdoor Parapet Rooftap Mount, Black	Outdoor Wall Mount Brackel	Outdoor Ceiling Mount Bracket
		MODEL NO. PICTURE PPRM306	PPRM306B	PWM30G	PWH30GB	PWM20G	PWH20GB	PWM2065	PSRCW2000B	WV-0122A	WV-0121

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				CAMERA TYPE	A TYPE	
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				-(j)	(5 20
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-SW598A/ WV-SW397B	WY-SW395A	WV-CW594A	WV-5UD638
PB24B	(-)	Outdoor Heavy Duty Junction Bax	Compatible with PWM205 series, PWM638	Compatible with PWM20G series, PWM638	Compatible with PWM206 series, PWM518	Compatible with PWM 205 series, PWM 638
PACA4 PACA4B	7	Outdoor Corner Nount Adaptor PACA4-Black, PACA48-Beige	Compatible with PWM206 series, WM-0122A, WM-SPMxx series, PWM633	Compatible with PVR-ZDS series, WV-D122A, YV-SP-Kuox series, PVRK638	Compatible with PWM286 series, WY-6122A, WY-SPM22X series, PWH638	Compatible with PV/M286 series, 494-0122A, 404-SP4Nxx series, PVVM638
РАРИС РАРИСВ		Outdoor Pole Mount Adaptor PAPM4-Black, PAPM49-Beige	Compatible with PWH205 series, VM-0122A, W-SPWxxx series, PWH638	Compatible with PWH206 series, WV-0122A, WV-SPVWcx series, PWM638	Compatible with PVM200 sories, WV-0122A, WV-SPMrcx sories, PVM638	Conspatible with PYH206 series, WV-0122A, WV-SPWXox series, PWH638
РАРМ6		Outdoor Wall/Pole Mount Adaptor	Compatible with PWM216 series, PWM538	Compatible with PWH28G series, PWM638	Compatible with PWM4206 series, PWM638	Compatible with PWM 286 series, PWM 638
PPMF12D	þ	Outdoor Pendaat Mount	Yes	Yes	Yes	No
PWM638	ħ.	Outdoor Wall Mount Bracket	88	Z	ON.	જ્યુ

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MODEL NO.	PICTURE	DESCRIPTION/TYPE	WY-SPWEILL SPWEIL WY-SPWEIL SPWEIL WY-SPWEIL SEIAL	WY-SPREST	WV-SP105/182	WV-CP500 SERIES WY-CP688/CP288 SERIES
WY-0120A		Dutdoor Adapter Box	Included (Except WV-SP- W311AL/531AL)	CLEARING PRINCIPAL (APPLICATIONS)	Apparation to the state of the	The state of the s
PUM8		indoor/Wall Universal Camera Mount (Max, Weight 3 lbs.)		Yes	**************************************	53,4
PODSCF	4	Outdoor/Pendant 8" Outdoor Bone Housing for Fixed Camera with Pendant Mount - Clear/H&&		58 ,	Ř	33
PODSCWF	7	Outdoor/Wall 8" Outdoor Dome Housing for Fixed Comera with Wall Hount — Clear/H&B		Yes	3 2	Yes
POH1100	1	Outdoor!Wall 10" Outdoor Housing Wall Mount Included				Yes
POH1100HB	3	Outdoor/Well 16" Outdoor Housing with Heater and Blewers Well Meant Included - H&B				Yes
POHTTOONWINE	3	Dutdoor/Wall 10" Butdoor Housing with Heater and Blowns with POE Plus Wall Mount Included - HRB		Yes	sə,	
POH1100NWM	3	Oshdoor/Wall – 10" Buildoor Hausing with Heater and Blowers with PDE Plass with Midspan Wall Mannt Included – 1868		Yes	য়্ব	The state of the s
PACA4. PACA4B	3	Outdoor Pole Mount Adaptor PAPN4-Black, PAPN48-Beige	Yes	The state of the s	n proprie promote a transcentario	777 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
РАРИ4 РАРИ4В		Outdoor Pote Hount Adaptor PAPM4-Black, PAPM4B-Beige	Yes			
<i>NEW</i> PEHV1000	(•)	IndoorfCorner Eterator Housing Brushless Steel/Fempored Glass Yandal				
NEW Pehyloogsfatjo	•	indoor/Corner Elevetor Housing Brushless Steel/Temporal Glass Vandal				

	FORM THEFT OF TO OANTRAS		100401	4				
SIZE	MODEL NO.	PICTURE	COMPANY	FOCAL LENGTH (MM)	APERTURE Ratio @ Wide	AUTO IRES	WV-SPH631/611 SP589/SP508	WV-SPH310/311 WV-SPH531
5	PLAMP2206	A	Fujihon	2.2-6.0	FI3	Yes	જ્ઞ	žes į
1/3"	PLAMP2406		โลกกาก	2.4-6.0	F1.2	ð	Yes	Yes
1/3"	PLAMP2868	C	Fujiron	2.9-8.0	FL2	žŽ	Yes	ž
1/3"	PLAMP2812	8	Fujinos	2.8~12.0	FLA	Yes	Yes	Nessentral Personal Company of Co
1/2"	PLAMP0722	(3)	Ricon	1.22-0.7	FL4	řes	Yes	, jes
1/3"	PLAMP0550	6	Tamon	5.0-59.0	F.4	额	Yes	Yes
13.	PLZ15/33	€,	Fujibon	15.0~50.0	75	řes	są,	jes
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HE		SIZE	1/3"	1/3	1/3"	
		MODEL NO.	PLM12MP028/1	PLM12MP060/1	PLM12MP120/1	PLM12MP019/1
		PICTURE				
Eras		COMPANY	Evelar	Evetar	Evetar	Sunny
		FOCAL LENGTH (MM)	2.8	0.0	12.0	1.95
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		AUTO IRIS	£	ž	2	2
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	(8)	WV-SW155/ SF135	,83	恏	'n	hetuded
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	•	WY-SW115	ŞŞ.	Yes	' 8ī	papagaul

	WV-CPSIR SERIES WV-CPSIR SERIES WV-CPSIR SERIES	,	Yes	Yes	/es	Yes	Ş	Kes	Yes	Yes
	WW-CW634			man de la companya de	Yes		3		žeš	
	AUTO IRIS	क्ष	Yes	ža),	ZS.	Yes	剝	Yes	ž	Yes
	APERTURE RATIO © WIDE	F1.8	F1.4	F1,6	FI.2	F1.3	FIL95	F1.6	715	F1.6
3	FOCAL LENGTH (MM)	7,0~70.0	3.6-6.0	5.0~40.0	1.1	2.7~13.5	2.9-8.0	5.0-50.0	15,0~50.0	20.0~100.0
EWE	COMPANY	Fujinon	Panasonic	Panasonic	Tamrôn	Fujinon	Fujinon	Fajinon	Fujinon	Татгоп
7 8 4	PICTURE	8	6	0),	•	•	(b)	8	€,	3
VARIFORM LANSE THE STRAMBRAS	MODEL NO.	PLAHS1770	WV-LZA61/25	WV-LZ62/85	PLA22T3DN	PLZ27/5DN	PL229/27	PLZ5/10	PLZ15/33	PLZ20/5
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	HOUSING	Housing	Factory Fush Mount	Factory Flush Mount	Factory Flush Mount	Factory Flush Mount	Factory Surface Nount	Factory Surface Mount	Factory Surface Mount	Factory Surface Mount
	LENS	Lens	Factory 3.8-6mm	Р1.АМР07.22 7-22.тт	PLZ15/33 15-50mm	PLAMP2206 2.2-6mm	Factory 3.8-8mm	РІДНРИ722 7-22mm	PL715/33 15-50mm	P1.AMP2206 2.2-6mm
<u> </u>	CAMERA	Camera	W-CW34F	W-cw634F	WV-CW634F	WV-CW634F	WY-CW634S	WA-DW634S	WI-CM834S	W-CW634
READ BROKEN PARKAGES			WV-CW634F	WV-CW634F/09	WV-CW634F/15	WV-CW634F/22	WV-CW634S	WY-CW6345/09	WV-CW6345/15	WV-CW6345/22

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WY-SPA311A PLAMP2612 POH1008HB	POC31412 POC31415 POC63412 POC63412 POC63415 POC63415	Camera WW-CP314 WW-CP434 WW-CP434 WW-CP434	Lens PLAMP2812 2.8-12mm PLZZ5/10 5.0-50mm PLIZ/10 5.0-50mm PLIZ/10 5.0-50mm	Housing POH1300ER POH1300ER POH1300ER
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MINITIONS					
MODEL	TYPE	INFO	IMAGE	DESCRIPTION	COMPATIBLE WITH
PLCD9C	Monitors	LCD Monitors	\$.	9" LCD meritor, 800 x 600	
PLCD9C/2	Monitors	LCO Monitors	\$ \$	2-9" LCD manitor, 800 x 600 with rack mount	
PLC015V	Monitars	LCD Menitors		15" I.CD monther, 1122 x 788 4.3 aspect ratio, two bulk-in speakers, 2x BNC inpet, S-Video in/output, RGB input	
PLCD19P	Monitors	LCD Monitors		19" LCD, 1280 y 1024, 5 4 espect ratio, two built-in speakers, 2x BNC input, S-Video infoatput, RCB input, DVI input, HDMI input	
PLCD24HDA	Monitors	LCD Manitors		24" Full HD LCD, 1920 x 1080, 16,9 aspect ratio, two built-in speakers, 2x BMC input, 5-4fideo in/output, RGB input, DM input, HDMI input	
PLCD27HDA	Monitors	LCD Manitors		27" Full HD LEN, 1920 x 1880, 16:9 Aspect Ratio, two built-in speakers, 2x BMC input, 8-Video in/output, DVI input, HBMI input	
PLCD42HDA	Monitors	LCD Manitors	Ç.	42" Ful HD LED, 1920 x 1080, 16:9 aspect ratio, two built-in speakers, 2x BKC input, 5-Victeo infostput, DVI input, HDMI caput, pedestat stand	
PRMK08	Monitors	Accessories	image Not Available	Rack mount Kit for PLCD15V, PLCD2DP monitors	PLCD1SV PLCD19P
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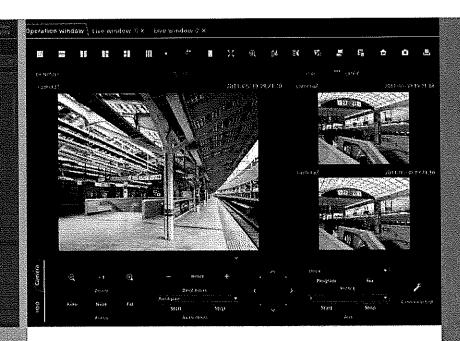
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VAV-STACTOA Incloor/Condoor Enhanced Super Oynamic HD Vandal-resistant and Waterproof Dome Nativark Comera
VW-SPK311A, Indoor/Outdoor Enhanced Super Oynamic HD Vandal-resistant and Waterproof Dome Network Camera
VW-SFV481 Indoor/Outdoor 340-Degree Vandal-resistant Donne 9 Megapixel, Network Camera
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WW-SFV631L Indoor/Outdoor Enhanced Super Dynamic Full IID Vandal-resistant and Waterproof Dome Network Camera
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WV-SWH15 Indoor/Outdoor Super Dynamic HD Vandal-resistant Wall Mount Network Camera	Dynamic HD vork Comera
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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

Panasonic

1.800.528.6747 psditech@us.panasonic.com

> 1.847.888.7000 Heartland Services 1615 Dundee Ave., Dock G Elgin, IL 60120-1620

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 svstem.
- 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
- · 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,
- 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
- Individual camera's MAC address not required for easy servicing and replacements.
- Multi-stream connections from one camera only require one license.
- Only 1 license needed for most 180° and 360° multi-sensor cameras.
- Panasonic i-Pro and Advidia cameras require no camera licensing.

Support

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

Access Control Integration:

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

Isonas

AMAG

DSX

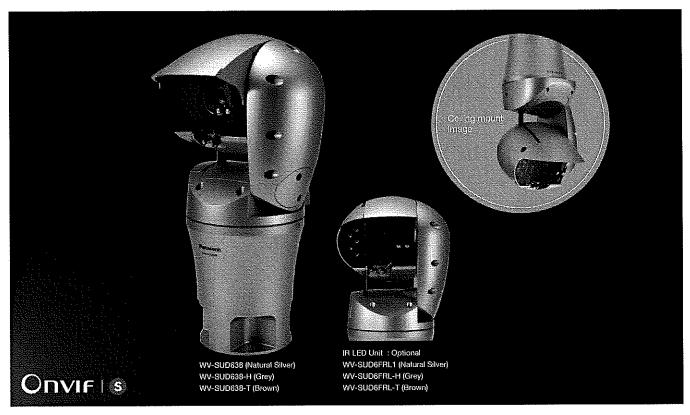
• RS2



Anti-severe weather PTZ network camera

WV-SUD638

AeroPTZ ...



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

Key Festure

- 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, titt: 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 Aerodynamies

- 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













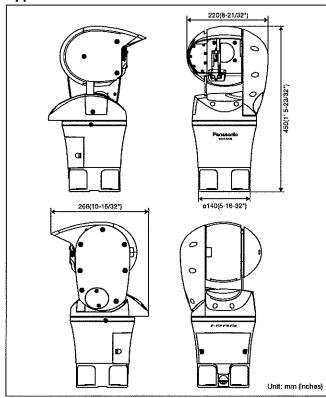
Specifications

Camera	lmage sensor	Approx. 1/3 type MOS image sensor							
	Minimum illumination	Color: 0.06 tx (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 (F1.8, Maximum shutter : Off(1/30 s), AGC : High)							
		0.001 ix (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*s	Dynamic Range 105 dB typ.							
	lmage settings	Gain (AGC), White balance							
	lmage compensation	Adaptive black stretch, Back light compensation (BLC),							
		Fog compensation, High light compensation (HLC),							
		Digital noise reduction							
	Shutter speed	[2 mega pixel [16 : 9] (60 fps mode)]							
		Off(1/60) to 1/10000							
		Other than [2 mega pixel [16:9](60 fps mode)]							
		Off(1/30) to 1/10000							
	Day/Night (ICR)	Off / On / Auto1(Normal) / Auto2(IR Light) / Auto3(SCC)							
	IR LED Light (Optional)	Off / Auto (High / Mid / Low) Irradiation distance ; 150 m (500 feet)							
	Image stabilization	On / Off "Hybrid Image stabilizer							
	Privacy zone	Gray / Mosaic / Off (up to 32 zones available)							
	Camera title on screen	Up to 20 characters (alphanumeric characters, marks)							
	Video Motion Detection (VMD)	On / Off, 4 areas available							
Lens	Zoom Ratio	30x / 45x with HD extra optical zoom (at 1280 x 720)							
	District Colores 1 1 1 1 1	(Motorized zoom / Auto Fogus)							
	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)							
B		Vertical: 1.3° (TELE) - 38° (WIDE)							
Pan/ut unit	Panning Range	360° endless							
	Panning Speed	Manual : approx. 0.065°/s to 100°/s							
		Preset : up to approx. 200%							
		(Except when IR LED Unit is equipped, forward tilt mount, frozen.)							
	Tilting Range	Upright : -45° to +90°							
		Forward tilt : -90° to +90°							
	Thi - 0 1	Hanging :-90° to +30°							
	Tilting Speed	Manual : approx. 0.065°/s to 100°/s							
		Preset : up to approx, 200°/s							
	December 19 and 19 and	(Except when IR LED Unit is equipped, forward tilt mount, frozen.)							
	Preset Positions	256 positions Auto track / Auto pan / Preset sequence / 360 map-shot / Preset map-shot / Patro							
	Auto Mode Self Return	10 s to 60 min							
	Tilt flip	On / Off							
Makaasia	Map Shot Network IF	360° map shot / preset map shot 108ase-T / 1008ase-TX, RJ45 connector							
Network									
	Image Resolution H.264	 2 mega pixel [16 : 9] (60 fps mode / 30 fps mode) H.264 : Minimum 1,920 x 1080 							
	H.264 JPEG (MJPEG)	H.264 : Minimum 1,920 x 1080 JPEG : Minimum 1,920 x 1080							
	or La (Marza)								
		•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							
	mage compression memod	Transmission Mode :							
		Constant bit rate / Veriable bit rate / Frame rate priority / Best effort / Advanced VBR							
		Transmission type : Unicast / Multicast JPEG							
		Image Quality : 10 steps							
		Multiple streams individually configurable							
	Intelligent compression	Smart coding, VIQS (ROI)							
	Intelligent compression								
	Audio compression	G.726 (ADPCM) 32 kbps / 16 kbps							
		G.711 64 kbps							
		AAC-LC*2 64 kbps,							
		AAC-LC(High quality)*2 64 kbps / 96 kbps / 128 kbps							
	Protocol	IPv6 : TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP,							
		SNMP, DHCPv6, RTP, MLD, ICMP, ARP							
		IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,							
		SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARE							
	Maximum concurrent	Up to 14 users							
		(Depends on network conditions)							
	access number								
	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,
	ង	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 compilant
	Resistance to wind	60 m (135 mph) (Operation) / 80 m (180 mph) (Installation limit)
General	Power source	AC100 to 240 V, 50 Hz / 60 Hz
		Tested PoE Injector* (60 W) *with limitations
	Operating environment	Ambient operating temperature :
		-50 °C to +60 °C (-58 °F to 140 °F) (When using AC100 to 240 V)
		~30 °C to +60 °C (-22 °F to 140 °F)* (When using tested PoE injector)
		{Power on range : -30°C to +55 °C(-22 °F to 158 °F)}
		*Natural Silver model only.
		Not available iR LED Unit when the temperature is over 55 °C.
		Grey & Brown model : up to +55 °C.
		Amblent operating humidity: 10 % to 100 %
	External I/O terminals	ALARM IN 1(DAY/NIGHT IN, Auto time adjustment),
	£	ALARM IN 2(ALARM OUT), ALARM IN 3(AUX OUT),
		Relay connection (x1 for each)
	line input	ø3.5 mm monaural mini jack
	.	Input impedance : Approx. 2 kΩ (unbalanced)
	For line input	Input level : Approx10 dBV
	Audio autput	e3,5 mm stereo mini jack (monaural output)
		Output impedance : Approx. 600 Ω (unbalanced)
		Using Amplifier built-in external speaker
		Output level : ~20 dBV
	Dimensions	220 mm (W) x 450 mm (H) x 266 mm (D)
		(8-21/32 inches (W) x 1ft 5-23/32 inches (H) x 10-15/32 inches (D)}
	Mass (approx.)	Approx. 8 kg (17.64 lbs)
	Finish	Main body : High-strength resin of salt damage resistance
		WV-SUD638 : Natural Silver
	1	WV-SUD638-H : Gray (N7)
		WV-SUD538-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.
 1 HTTPS is not available.
 3 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



- Trademarks and registered trademarks

 Microsoft, Windows, Windows Vista, Windows Media, Internet Explorer, and ActiveX are either registered trademarks or trademarks
- of Microsoft Corporation in the United States and/or other countries.

 iPad, iPhone, and iPod touch are trademarks of Apple inc., registered in the U.S. and other countries.
- Android is a trademark of Google Inc.
 ONVIF and the ONVIF logo are trademarks of ONVIF Inc.

- Important

 Panasonic cannot be responsible for the performance of the network and/or other manufacturers products used on the network.
- Design and specifications are subject to change without notice.
 Masses and dimensions are approximate.

DISTRIBUTED BY:

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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.

Download | Panasonic Security System

security.panasonic.com

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 ...

security.us.panasonic.com

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

Telepone: 713-581-9248

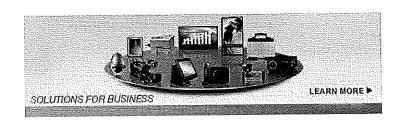
Panasonic 🖸 💆 🖫 🗓













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.



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.



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.



Pricing – Lower Total Cost of Ownership

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



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.



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



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

i-PRO Ektreme in 2-3 Aero PTZ in 4-5 Smart Coding in 6-7 Itue 4K in 8-9 Video Insight in 10-11

FacePro" ss 18-19

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KEY BENEFITS Key Benefits of Panasonic Video Surveillance Cameras • 20-25

VETWORK PRODUCTS

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

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.

SYEAR

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

Enjoy these benefits:

VIDEOINSIGHT

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.

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

U.S. permaders mit; dielect Panspanit HPRD conners with a manulationing date alter Dender Viola for the des VIVMS (conse and the additional Insertain Martinity enfaction are eligible.

Panasouic 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 Auto-Intelligence features like automalic scene-detection confinuously monitor the field of view and instantly adjust the cameras parameters to optimize for best H.256 enroding generating up to a 50% reduction in baddwich compared to H.234 and Panaschic's Advanced Smart Coding and Intelligent Fare Coding features push that figure up to an 80% reduction. Extreme Reliability is enabled by technologies like HDD Bynamic Power Control for the new WJ-NX400 class recorder that reduces the frequency of HDD failures and greatly extends their working life and Automatic-Failuver which allows two recorders to run in tandem for seamless recondary in mission critical applications. Panasconic's i-RD Preferred Program stands behind i-PRD's Extreme Reliability by adding 2 years of factory warranty to the standard 3 year varranty on cameras. I-PRD's Extreme Bala Security means the new i-PRD Extreme surveillance platform emplays PC-level IP-Data Security standards via Panasconic's Secure Communications Suite and robust authentication using Symantec Device Certificates delivering image capture based on scane dynamics, compensating for motion and constantly changing lighting. i-PRO's Extreme Compression begins with industry standard eatura an industry teading 144d8 of Extreme Dynamic Range delivering balanced exposure and accurate color in even the most challenging lighting environments. EXTREME comprehensive end-to-end data protection on all new i-PAO Extreme-based connexas, recorders and video management software.

EXTREME VISIBILITY

ENABLES CAPTURE OF THE HIGHEST DUALITY INABES AUTOMATICALLY EIEN IN VERY DYNAMIC AND CHALLENGING LIGHTING ENVIRONMENTS

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

EXTREME COMPRESSION

ICHNOLOGIES DELIVER THE MIGHEST QUALITY IMAGES AT THE LOWEST BITRATES INDUSTRY STANDARD H. 265 AND PANASONIC'S SWANT CODING

SMART CODING Working on top of H.266. Smart Coding technologies like 60P Control and Auto-Anos reduce handwitch requirements even further for up to an 98% efficiency over H.264. M.266 COMPRESSION Industry standard H.266 compression delivers high quality images while reducing streaming and storage requirements by approximately \$1% over H.266 SMART FACIAL CODING Automotically 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

HDD POWER CONTROL. HOB Dynamic Power Control Lechnalogy Intelligently powers down HOD's without isking recording loss, extending HOG life up to 7 years" I-PRO PREFERRED WARRANTY STANDS BEHIND PANASONIC'S HIGH RELIABILITY ETH TETHOLOGIS DELICE LOW FALUE RAIS AND THE GULD

HDD ST. HANDE Auto-Failove

5 YEAR WARRANY Pacasonics i-PRO Preferred program adds an additional 2 years to the factory 3 year warranty on i-PRO cameras for a total of 3 years which includes Advanced Exchange^{wa} AUTO-FAILOVER New W.J-NX400 recorders can be connected in Landem to enable seamiess recording redundancy for mission critical appliacetions

EXTREME DATA SECURITY

DEVICE CERTIFICATION ENSURES ROBUST END-TO-END IP SECURITY PANASONIC'S SECURE COMMUNICATION SUITE AND STWANTEC'S

SECURE Communication

Comme

SYNANTEC AUTHENTICATION Fransonics has partnered with Synander, the global leader in ophersecurity, to deploy their reliable Device Centificati Estabology on all 1-PRO Extense devices. FIPS CENTIFIED 1-PRO Extense products sneet the Federal Information Processing Standard (FIPS) 140-2 Level 1, as required for FBI and Public Safety use SECURE COMMUNICATION A PC-Level security sulte embedded in all new FPRD Extreme Caneras, Recorders and Management Software enabling data and communications encitypiton

EXTREME

Panasonic

经 NEW CAMERAS (IEM)







NEW Powerful Windows' application enables a sec scatable H.265 ready, multi-camera, multi-recorder surveillance management environment

HEW H.265H.264 high-throughput and scalablo recorder featuring integrated OUI and robust embedded IP security enabling a secure and-to-end PC-Less surveillance solution

rtey is 200 i PRO HU & PUL HD BÜys camera line-up Rathaing Éxtreme Visibility, Extreme Comprassion. Extreme Reliability and Extreme Data Security performance

Camera control, viewing and recorder management
 Integrates i-PRO Extreme H. Zds & i-PRO H. Zds equipment
 Secure Communication and Symantec Device Certificates

* 64 Channels - 128 Max H. 269/264| * 384/Mbps recording bandwidth * Secure Communication and Symantec Device Certificates

Ultra High Sensitivity D.008 tx (HD), D.012 tx (FHD)
 Dator Hight Vision — Fall Codor in the light
 Extreme Stoper Dynamic Range 14446
 Auto Scene-detection and Optimization

** NEW UI design & 4K native GUI enhances usability
 ** Automatic camera configuration wizard
 ** New include multi-monitor and WJ-CU950 support

Built-is GUI and Bual ADMI Detputs
 Automatic camera configuration
 Znd Stream Recording for mobile playback

H. Z65 Compression – Felly H. Z64 Compatible
 Smart Coding – Long GOP Mode, Auto VIOS
 Smart Recial Coding

PC-1525 SURVER, LACE SOLUTION

- STREET AND EXTENDED SELECT
- Base: 100 recorders, 64 encodors and 256 cameras
 Expandable to thousands of cameras, recorders and encoders SHEET MAN CONTRIBE
- MENV FREE timited version supports 16 Cameras/1 Recorder
 No annual license fees ses HOO life

Bynamic HOO Povier Management Increas
 Redundant Fall-over using 2nd Recorder

(9) Integrated Drive-bays RAID/5/6
 External storage expansion up to 27078

Easy-hstall ClearSight* Dome
 Integrated Image Stabilization on PT2's
 Reliable night time image capture via built-in IR*

I-PRO EXTREME H.265 SERIES LIME-UP

Secure Communication Suite
 Symantec Device Certificates

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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 Ultuminator 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 and a wider dynamic range compared to conventional cameras

HIGHLY RUGGED, SLEEK BODY DESIGNED FOR EXTREME CONDITIONS

- # High strength, steek 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 artic 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

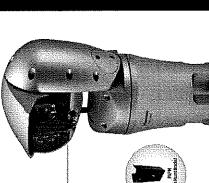












Panasonic

WV-5UD638

EXTREME ENVIRONMENTS RUGGED PTZ CAMERA FOR

INTEGRATED WIPER & DEFROSTER

1080p 60fps

30k Optical Zoom

PANASONIC INTRODUCES SMART CODING TECHNOLOGY – REDUCE BANDWIDTH WITHOUT SACRIFICING WIDED QUALITY OSI POLOTO

Smart Coding is avaitable on all standard new 1, 3, 5, 6 & True 4K Series cameras. echnology that reduces bandwidth usage up to 80% without sacrificing ideo quality. It delivers the resolution and frame rates you demand, Introducing Panasonic Smart Coding, an in-camera surveillance while substantially towering storage and networking costs.

BANDWIDTH REDUCTION * % 0 0 0 da

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

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.

Notice Reputertion

3D-RNR reduces grainy noise generated in tow-illuminance environments. FDF reduces fine noise that is generated at slightly low illuminance.

60P Control reduces encoding data by using p-frame in place of i-frame when no motion is detected,

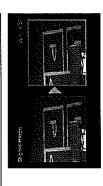
areas with and without motion and reduce the data volume of those without motion. Auto-VIQS can automatically determine

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)

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



ENCODING LOAD REDUCTION

GROUP OF PICTURE (GOP) CONTROL

60P 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 (VIQS)

Auto-WQS 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

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

Panasonic

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





Light near subject; 1 lx

HIGH-POWER 6X ZOOM LENS WITH AN ULTRA-WIDE ANGLE OF 100 $^\circ$

The camera's ultra-high 4K resolution allows it to capture color images in dim, low-light conditions.

OW LIGHT READY

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.





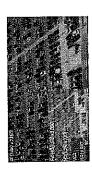
4K Vandal Resistant

4K Vandal Resistant



Weatherproof Dome Network Camera

Weatherproof Network Camera



nine times that of standard HD (1,280 x 720) and four times that of Full HD (1,920 x 1,380).

only a part of the image.

Ultra HD 4K cameras offer 27 times the resolution of conventional analog cameras (VGA), This means that the finer details of images remain clear even when you need to magnify

ULTRA HIGH-DEFINITION, 4K PICTURE QUALITY

ULTRA HD

The high performance lens used by Panasonic's 4K cameras provides uniformly high-A given area within a single image can be selected, cropped resolution images from the center out to the edges CROPPING FUNCTION







Copyed House 4

HB [1,288 x 728] x 4

1K 13.840 x 2.160)

still keep an eye on the overall image while also focusing

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

on specific areas. With PTZ cameras, when the lens is pointed in a single direction, other areas go out of view during that lime, but with a 4K camera you can monitor the entire area while also watching specific areas requiring more focused monitoring.

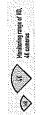
WIDE-AREA MONITORING

total number of cameras while also eliminating blind spots. Monitoring can be performed A single 4K camera can effectively monitor a wider area, which allows you to reduce the not only at vertical and horizontal angles, but for deeper depths as well

cameras. This translates into reduced costs for the cameras themselves, less installation 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 time and labor, and lower maintenance costs.

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







j

The lens is capabla of capturing an extremely wide area, allowing effective 4K coverage of outdoor areas. with an ultra-wide viewing angle of 180°, a type of lens that is extremely difficult to produce using

conventional optical design methods.

Illra-wide-angle 100*, Wide-angle monkining of parking lots, studioms Etc. utilizing 4X resolution
 Totophose 17°, Monitoring of individuals or crowds from a distance

Using a proprietary 3-drive lens system, Panasonic has developed a high-power 6x zoom lens 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.



PANASONIC'S TRUE 4K TECHNOLOGY

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

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

aspheric lensos are also used extensively to reduce aberrations to the ultimate degree. The clear depiction, sharp resolution and beautiful color reproduction 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 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 prefetred When attached to the mounting plate, the camera's direction can be easily changed direction at the preferred location. Dome Type WV-SFV7811.





zoom and autofocus also shortens the amount of time required for fine

uning the installation.

direction. The combination of a 6x optical

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

Ξ

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



Now Supporting i-PRO Extreme H.265 Cameras

including Bundled VI Software License on all Panasonic and Advidia 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.

financial, gavernment, retail, and transportation secturs with a vary 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 Video Insight is a member of the Panassonic Group and a leading IP video surveillance management software used by over 25,000 customers in the

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

MONITORCASI

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



MonitorCast

PRE-CONFIGURED SERVERS

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

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 Video Insight Servers come pre-toaded, 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 pre-configured servers, please visit business,panasonic.com/products-videosurveillance-servers.

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



Panasonic

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

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

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 (NYRs), Health Monitor, automated failover, and easy-to-use load batancing allow migration of cameras between servers. All of these foatures 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 (ayouts. Users can save or email snapshots, view recorded images by adarm or specific times and view thumbnail images on facility maps. Users can adso trigger events to display customized actions on Monitor Station/VI Monitor directly from mobile devices.



DELIVERING SHARPER IMAGES MITH HIGHER SENSITIVITY

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





360-degree Indoor Dome ? Megapixel Network Camera IIII SA II KA

360-degree Vandal Resistant Outdoor Dome ? Megapixel Network Camera

COMPLETE WITH POWERFUL ANALYTICS BUILT-IN

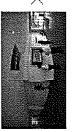
Panasonic

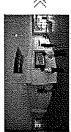
This provides visualization of the traffic patterns by people and how long they stay in one place. For example, you can place products based on how people tend to flow within the store and arrange objects so that they do not interfere with the movement of people.



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)

SHARP RENDERING OF OBJECTS AND PEOPLE'S FACES AT THE EDGE SECTIONS OF THE FISHEYE

H.264 PERFORMANCE ENABLES PM (3K × 3K) HIGH-RESOLUTION

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

NOW WITH SMART CODING





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

ULTRA HIGH RESOLUTION

BANDWIDTH REDUCTION UP TO 80%

Includes a 12-megapixel high-sensitivity sensor capable of 4K image output for producing high-resolution images up to 9M (3K × 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, & Stream mode).

JUTRA HIGH SENSITIVITY

W-SFN480

JUTRA INTELLIGENT

Provides natural-Looking, crystal-clear images even in dim locations. Includes a new powarful image sensor and new lens. Automatic switching between

day/night shaoting modes and the linked Auto Back Focus enables monitoring even in dim environments.

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





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

UniPhier®

Panasonic's top-of-the-line 6 Series, midrange 5 Series, 3 Series The next-generation UniPhier® Camera Platform is the heart of

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 mages 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.

delivering outstanding performance even in the most dynamic and challenging lighting conditions. The rameras have the ability to encode up to four H.264 streams to ensure simultaneous real-time monitoring, high-resolution recording and mobile access. lunctions like Enhanced Super Dynamic Range (133dB) video dynamic range and 60-frames-per-second performance in 1980p and 720p, he UniPhier® Platform—developed exclusively by Panasonic for use in its 6, 5, 3 and 1 Series cameras—offers innovative

NEW 1 SERIES MODELS *NOW AVAILABLE*









11 SEPT 13

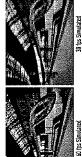
HINES-III 1370 1376 1585 1111

IGHT RANGE COMPENSATION ENHANCED SUPER DYNAMIC

Featuring industry-Leading 133db [1 Serias up to 122dB] Enhanced Super Dynamic and Adaptive Black Stretch (ABS) technologies, the new 1/3/5/6 Series cameras allow you to see images that you couldn't







with their high-resolution video quality to ensure crisp, smooth motion

The 3/5/6 Series cameras' ultrafast frame rate of 60 fps combines for applications in casinos, airports, stadiums and much more.

EXCEPTIONAL IMAGE QUALITY

SMART CODING REDUCES BIT RATES UP TO 80% MITHOUT SACRIFICING IMAGE QUALITY

Panasonic

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 topreserve forensic detail, while substantially lowering your storage and network costs.

BANDWIDTH REDUCTION

Panasonic combines three advanced signal processing technologies – Group of Picture Control,

3D-Mutti-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.



Conventional Camera at 0.57 Lux

WV-SFV631 at 0.57 Lux



EASE OF INSTALLATION

The (12)5/6 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.

MEATHER COMPENSATION

To help improve the captured image in poor weather conditions, such as smog, fog or smoke, the visibility of the 1/3/5/6 Series cameras can be enhanced in any



Fog Compensation DR

Feig Compensation OFF

SMART DOF (DEPTH OF FIELD)—6 SERIES ONLY

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



Conventional Fixed Dome Camora

FOR MORE INFORMATION ON Ć , 💆 , AND 🚶 , VISIT www.us.panasonic.com/uniphier

TRANSIT SURVEILLANCE SOLUTIONS

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 ous passengers and drivers while protecting the vehicles from theft and vandalism and reducing expensive Our NEW i-PRO Transit solution equips transit agencies with the tools to provide a safer environment for of arrest and conviction should a crime occur, helping reduce time spent in litigation.



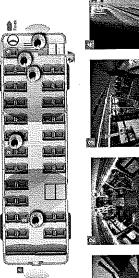






180-degree Panorama mode

IN BUSES





Wide Coverage without Blind Spots

water spiashing. In addition, the coating resists attachment of dirt when the camera is installed in an environment subject to rain or The application of rain-wash coating to the dome cover provides clearer visibility, allowing good security to be maintained even 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"

on rolling stock EN45545 "Fire safety on rolling stock": Preventive fire protection EN50155 "Railway applications": Electronic equipment used and EN45545 "Fire safety on rolling stock"

in railway vehicles - Fire behavior and fire side effects of materials and parts

Panasonic

TRANSIT SOLUTION RELATED PRODUCTS

360-degree Dome Network Cameras

4:

WY-SFV481

- 3.67 monitoring with a wide vertely of transjurission modes. Peans m. Double Pandern, 2018 of 17.1 Single 17.2 and Usual Streams (H.284). 2.2 (2012) (2012) of the images on to this fish by new (K. U.I.R. HD origine of the images on the intervention of the images of
- Low profile design for discrete installation Vennet Lesisens menaband per febrility Pits france water and dats resistant. Dempathole with IELODE29 mesaurament standard, Type of (IUSI), NEM AC compliant

360° monitoring with a wide vanety of transmission modes: Panorama, Double Panorama, Oned PTZ, Single PTZ, and Ouad streams (1):264/VGA)

- 1180p Fall KO magies up to 30 fixs Competible with EM50165 "Raitway applications" and DNN 5510-2 "The safety on rolling stock"
 - Low profile design for discrete installation Vandal resistant mechanism for high reliability
- P66 rated water and dust resistant. Compatible with IEC605.29 measurement standard. Type 4X (ILLVO), NEMA 4X compliant



Compact Size Dome Network Camera

WV-SFV130H/110M

-tillings full fill images (WV-STV10H) 170b ill images (WV-STV10H) up th 101 fiss -tighi sensithity with beylingst (Bischincal Imacion - BAC to (Bolod 18,03 to (BAV) at 723 (WV-STV10H) - Compatible with EHGO 155 "Technory applications" and EHGS55" (Tecsalety on rolling stack". Low profile design for discrete installate

Vanda resistant mechanism for high reliability Pos napa water and dust resistant. Compatible with ECOOE29 measurement standard, Type 42 (ULSO), NEPA 42 compatant









Rugged Mobile Network Camera

1000p Full HD images (WW-SBV131M), 720p HD images (WW-SBV111M) up to 30 for ML SBY131M / WV-SBY11TM

High sensitivity with DayMajnt (Electrical) function. Dak to (Color), 0.03 to (BeV), at P22 (MV-SBV11M)
The camea conforms to the (P46, Type cX (ULSI) and PAKYA, is compliant with HEMA KI relates and provides high dust resistance.

- Actions light-level Virestin resistance with E16075 and Mil. STD-STD Compliance. Adoption of scratch resistant done content with a compact and stack designs opported for commons heatbled on the outside of a webtide. Vendal resistant mechanism for high reliability



Iransit Recorders

I-PRO TRANSIT NETWORK VIDEO RECORDER

- -Powered by the Intel® Core" (7 Processor for high-speed performance.
 Runs Windows.® OS for optimal sertware compatibility
 Supports two MT Ethernet connections.

RECOMMENDED HOBILE RECORDER FOR BUS (VTC7110)*

Bring univaled computing power and exceptional video graphics handing onto the bus with this rugged, mobile-ready records. With its ability to record and wrielessly transmit Alb video from up to four IP caniercs top to 18 with an optional, expansion switch, transit control froms can be given complete situational evaneness of the vehicle in real time. This is a product from XEXCOM internalional Co., Ltd. Contact is sales representable to pure



WV-ASF900W—FacePro*



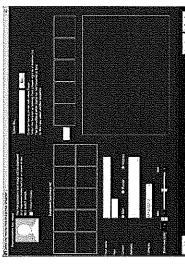
Vindows® server-based face recognition and analytics platform featuring high-speed face searching and matching. The WV-ASP90W FacePro* Facial Recognition is a software solution and software engine that automatically performs verification of a person's face using live video streams or digital images from Panasonic i-RRO cameras to match against a database of enrolled faces and perform notification and alerting of face matches. Boasting 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 flexibitity, reference face images can be registered from source video or imported via BMP, 1P6 and PN6 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-ASM200W 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 parformed by specific camera or date.

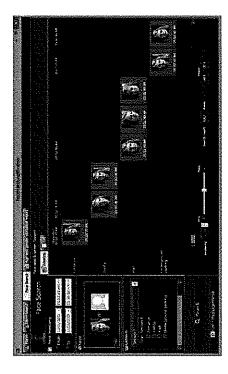
How Do I Benefit from FacePro Facial Recognition?

It reduces custs by eliminating personnel to monitor entrances. It provides instant notification, and luwer your tisk by reducing and preventing valent confrontations during spature, as well as by instantly addring your diumented persons entering your faultly. It's simple and easy to use and does not require physical confact, and it's the only keasible solution to use with large covers in your facility. In addition, it improves your service and sales potential by recognising pustomers.



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.



- m 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-SC385 models and WV-SPN631, WV-SPN631, WV-SPN331, WV-SPN331 models and WV-SPV831LT 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 Comercs or more require dual-cpu FacePro server model

HIGH PICTURE QUALITY, HIGH SENSITIVITY

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

HIGH RESOLUTION

The Parasonic i-PRO SmarthO Series of network cameras are high definition (HD) cameras capable of shooting video at full HD (1 920A) 2001 and HD (1280A)201. These cameras can record up to 40 images persecond 60 froil, 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.







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

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







DAY/NIGHT AUTOMATIC MODE SWITCHING TO Instore, watch to the control of the contro bright during the day but dark at night, the camera can automatically indetermine the brightness of the area and record video under the ophimum conditions. During nightline burst, the camera automatically switches to back-and-while video for providing todage with high wishlitly. In stores, warehouses, and other locations where it is



supported functions and up-cilications differ according to the models. See the specifications for red5

Smart Dof (Depth of Field)

The LPRO Smartti Series commers are local, no sovoling in locations with legal, When recording areas will depth, such a capigly passequencys or when species, the optimum image can be capitated with flocal points conditionately as the local per series and "an ends of the image."

B LUX PITCH DARK LOCATIONS

Comeras with a **Smart IR LED** can be used to monitor environments that are completely dark. This enables areas without the Level of Illumination required to be monitored to prevent graffiti, illegal dumping, and property destruction.

Smart R LED can illuminate a wide area so that monitoring is not limited to a specific part of the inage. The built-in R LED of the 4 Series can capture subjects un to 30 meters away. Light levels are automatically adjusted for blown out highlights and screen whitening when the R LED shines on a subject close-by, making the right areas highly visible. The IR LED is covered to make it difficult to detect from the outside or to know which way the lens is pointing.



STRONG LOW LIGHT PERFORMANCE IN COLOR

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



IMAGE COMPENSATION

Panasonic

FOG / SANDSTORM COMPENSATION

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



Before Correction

After Correction

HIGH LIGHT COMPENSATION

surrounding areas.
Frazilong the H.C. High light compensation function reduces the brightness of stoods gight sources and enhances the surrounding areas for optimum video recording. For cameras installed at locations along roads or at entrances and exist to parking lots, the glare of headflights and other strong light sources shining into the samera lens can prevent the reading of license plattes and

in our Rain-west coated models, a special cretting is applied so that water deoplets are repetited allowing clear integes to be recorded even during rainfall. This coating is also effective al repeting dirt so that cleaning of the dome cover

Water droplets from rain can adhere to the dome cover of VISIBILITY ENHANCEMENT COATING

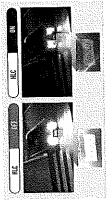
the camera and hinder the shooting of clear images.

PSECRETOR / PROCESSING VALUE OF STANSOR FROM FROM THE PROCESS OF T

is required less frequently,

Coated areas are resistant to thirt

Coated areas are resistant to water droplets



KEY BENEFITS OF PANASONIC VIDEO SURVEILLANCE CAMERAS (CONT.)

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

Numel lined lens cameras can only monitor in a cartain direction, but the lens of a PTC camera can be operated ramplely to switch to the direction you want to view.

beraited areas can also be zooned in to a maximum of 90s. Since the cameras can be infinitely rotated 360 degrees at a high speed of 300 degrees/sec, you wilt not miss the subjects you want to monitor.



If the locations you want to mentor are fixed, you can register them in advance and more to them with a single locat, or administrally paint the registered locations. Data can be sened to a recorder when automatically partedling the registered locations, without intervention by an operator, Ranges thet cannot de covered with a single fixed lens camera can be covered by parrolling Preset Position / Preset Sequences

If the tracked subject moves eat of the carmera's shootable range, notification is sent to other cameras so that the racking geneess can be carned on without interruption. The yan, Olt, and worm functions can be combined for automatically inaching the movement of a subject. Survanced Aute Tracking











duction due to the distincting effect of the dome cover and other counses. The Panazoniat, WK-SASTAN axos an ASM function to reduce this divolve-image effect and srables studing of images up to 15° upward from the burbantal plane. This allows the use of anot insking and other finantions When the direction of the comerc ions is tilled upward from the horizontal plane, the video image can appea

AUTO EYELID MECHANISM (AEM)



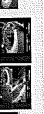
in all directions.

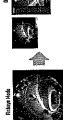
Analysis and States, Double Passers and PTE, and Stream, and a Stream, quad PTE, and Stream, and the common aren extra view images based on the selected video since to reduced feads on the viewing system. The 368-degree Helynork Carnors can capture images around the carnora lans

360-DEGREE MONITORING

over a wider travement range of the subject







Managament Schruze (VM-ASM-201) can be used an 3-80 omnidhectional innapas captured by Estabye Mode to cament as a format their is easier to view, such as Clund PT. Decause the 3-90" omnidhectional vidos umage is stered in the recarder, nothing The 26U-depree Notwork Camera con genoribe and outpay video images for each mode vidinin the camera unit. Also, the Network Disk Recorder (MJ-4N3R0) or I-PRO

is missed within the wayning area.

In addition, the area that year want to returned using a controller or meuze to allow you to advanticatly more the viewing soot for patcolling the area. Even princing, access and visible, ou the screen are all stored in the reconder in Pishape Made so that nothing is belt unseen. The Pain-Till of the 360-degrees Network Comera does not acce mechanical components, and so provides a conorth inproment virtuant the mechanical wear that could a oversign after tamen brongwidy.

Supported functions and specifications differ eccording to the models. See the specifications for each models

INSTALLATION ENVIRONMENTS SUPPORT FOR VARIOUS

Panasonic

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

SELECT THE SPECIALIZED MODEL FOR YOUR INSTALLATION ENVIRONMENT

The outdoor models have a weapproof and auchyroof stracture that is rated IPA6 for outdoor installation voltour requiring insection on a opesial housing or other. Rainwater protection for outdoor installations

Hydels can be selected to match your specific standistion randitions and can be instituted in carbonants with temperatures ranging from +55°C to -50°C. The supported compensative range varies depending on the specific medel.

Temperature protection for outdoor installations























DEHUMIDIFICATION DEVICE

The activals comera outdoor modes have a bash-in cleaunistins check no loves the insernal humidity for praceding quadriesso sub to conferencion. This climinates burny-vision images canced by cloudings of the comera clone cover when its collect in contraction that have contracted to contract of the clay.

Vandal Resistant

When installed in locations that we prone to wandatism and tempering, measures are required for preventing damage to the camera. Models teaturing the Yandel Resistant mechanism aro idnal for installation in these types of locations.



VANDAL RESISTANT MECHANISM

Monda, teal uning the Variatal Resolvant mechanism include a shock elevation operator the internal Lens. There if the other content was standarded to a patentially damaging impact, the durick absorber will stand this impact to protect the internal structure from Garange.



KEY BENEFITS OF PANASONIC VIDEO SURVEILLANCE CAMERAS (CONT.)

INSTALLATION ENVIRONMENTS (continued) SUPPORT FOR VARIOUS

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

Inboard Model

A lineup of network coments is also available with anti-vileation and other specific advantage for residiation in seas. Next-so and softwares for residiation in seas. Next-so and softwares for residiation in seas. Next-softwares and resident with the NAV-Softwares and resident with the RESIDIATION of the RESIDIATION of


up to 146°F) the camera is highly versatile.





ABF (Auto back Focus)



Mount on the Cutside of the Vehicle

The sugged mobile network camera WW-SBV131M, WW-SBV111M meets the United States (Peyortment of Defense Military Standards Mil.-S110-8105 to withstand even the barsk-so.

of environments, Also meebing the bighest International Protection Standants IP6K9K, the comera is dust

Vering such standards allows the camera to be mounted on the audicitio of bucose and which will not not conference and present an area of the camera. The bucose is not conference and the conference and Conference an







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

INTELLIGENT VIDEO MOTION DETECTION

Panasonic



INTRUDER DETECTION Crossing over the fence

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-chicate inhology for langer than a specified lines, from 10 sec to 5 min.

ito matin of datata in the viewing or detather was, forme, and teate at daylogal around the februard reviey died to the The intege, by the states can be obserted simultaneousts,

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

ūκ

Objects moving in a specified direction

DIRECTION DETECTION "



insurtunexe cuesad by annuning with the curvon, such as a material chang In the comerciancifica of blockage of the buils with a soila or quiey point.

-ubjects insolving an a specified discusion. Up to 8 directions can be specified. "I type i fight I shar I intand, connex finite to all apost mile pape P.O.F. differing for this Shorth and Mri-Shireli

08JECT DETECTION " Removed Object Detection

person who crosses the virtual line to the specified direction CROSS LINE DETECTION "



-disciplifie operator when people or departs cross the oraquesy term. If $f_{\rm SM} \gtrsim f_{\rm BM}$ are when showing the manager of the minute of the manager of

[1]

Recurded to the SD momory card installed in the comera

Reduced Installation Time

he i-PRO SinartHD Series cameras include a aumber I you want to change the camera direction after installation, the camera direction can be changed in 50° steps without removing the base (SPV, SFR). of teatures for reducing the tone required for

The fume core can also be easily removed to change the direction of the tiens. For Centuros for the tiens. For Centuros for type -canerace (SPV) modes), the stay can be bett to one of two lengt to allow installation with a high degree of freedom.

Please find the Transit canera specificatons on page 25.

The ABF fraiture automatically adjusts the image serson positions when changing from color to BPP made, optimize the book facus required for clear,

starp integer. In existing, the one-pack Acto Back Focus between temply reduces the time required to focus extensis oring installation. Allowing season to be set using in proplicate Systems controller. The ASF truction can also automatically series and adjust to sight fixed length changes due to parts employ account by importation changes in the even when the comme is installed.

ACTIONS WHEN AN ALARM IS DETECTED

Natification sent to the monitoring screen

Monitoring

olets Die operaturwing a left or pringest obyect is deboded. 2 lige 2 ige 1 gebest construities to the operatury page 1.12 - 71 chr

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Alarm notification sent to the recorder and WV-ASM280 management software A1576-45150 Water de play

Data saved to FTP server

Emzil notification of atorm Manual delim producidi se [Parament delim producid] realization is successed it de PE news only active in on the distrement see: Holiffication sont to device connected to external orderd Seart-lights or pairs lights connected to the oriental actor of the transcare life Baique alarm notification

dd the optional WV-5AE200 saftwar

Appearance		NEW separate 2014		
		Onvirio WY-SUB638	Onvieto@ WV-SW598A	Onvie 166 WV-SW3978
		4080103	(B) (S) (S)	HB739?
Schsof		1/3 MGS	SDM 5/1	27 PET 1 1975
	Water Codec	1,254,7 JPE6	7	2
Codec and Transmission	March minn Secure	(Mariable)	9	9
	Smort Fadien	CANCOL MAN D	1	
and the second second section is a second se	14.9	1920 x (BB)	1920 x 1980	1280 x 720
Max. Resolution	4.3	1280 x 950	1280 x 960	1280 x 968
Spe Che	H.264	60 fps (1080p)	30 (ps [108Up]	38 fps (2.4 MP)
Char. Resolution	JPEG	30 tps (1990p)	30 tpc (1000p)	(dN 772) xd) ff.
Super Dynamic / WDR / BLC		Super-D	Super-B	Store-U
Day/Hight		Yes (ICR)	Yes (ICR)	Yes UCR.
ABF (Auto Back Fneus) / Focus Assist	Assist	Auta Facus	Auto Focus	Auta Focus
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Min Illumination	Catar (Sens up)	0,014 fx 116x)	Lally Ex Flox	יייייייייייייייייייייייייייייייייייייי
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COUR	1.11.0	U. T. T. to f.f. den 11, 1, 3 to 33 den	R-7 Am 54 Adm 19-1 6m 38.2 deg.	H: 2,6 to 64,6 deg, / V: 1,6 to 38.2 dog.
Angular field of view	1017	2.18 to 51 (2.17) to 51 con-	H: 14 to 44 4 dep. / 1: 1.1 to 33.8 400.	E1.4 10 44.4 deg. / Y: 1.1 tn 33.8 deg.
V	Sans	Endless	Endless	Endless
Pan	Speed	230 dog/sec	300 dagranc	30th deg/sec
	Range	Upright: -50 to +90 day. / Farward 178: -90 to	-15 to +195 deg.	-15 to +195 deg.
	Same	Z01 ded/sec	300 deg/sec	300 degr'soc
360 Pap-Fito		-	-	
Hamber of Preset Pestitons		255	256	256
Patrol		řes	'fes	Yes
kato Tracking		22	Yes (advanced)	Yes (advanced)
Optical Zoom		30x	302	All: (Abx with extra 2001) of file
Digital Zoom		27	17.77	Ver (2 acase)
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FVMB (Intelligent VHO) (wiextension software)	lension software)		1 12	Yer () series
ADS	alite service (to probably be because of a received	Yes (8-arteas)	155 (J-Brott)	May 10 To 10
Max, Connection		71	* A	
	in Line	¥	ā	
	In EBUILL-In MICI		444	Ves
UPAY	Opt.	SSI STATE OF THE S	5 711 (6 734 (A8C lets)	G.711/5.726/48C1*2
	Codec	H	The state of the s	Tes
***************************************	Alidio Generica Austria		Yas (50%)	Yes (SDXC)
	Presunt E			
Sil memory Card	Alter Detection	ļ	1	
	Audio REC	-	21,	Yes
External VO		Yes (3) ["4)	Yes (3) *3)	Yns (3) (**3)
Hanltar Out		_	Yaz (Composite)	Tes [Camposta]
Vandal Resistant		203, IK18	ZB1, 88.10	253, 1819
Water and Dust Resistance		P67 P64 HEMA CX	P66 HEMA C	Man and and and and and and and and and a
Temperature		-58"F to +140"F	-38 to 431 f (24 V 40 W 105) '4.	-20°F to +131°F (PoE+)
Proces Source		ACTED to 240V / 50W Injector	24 V AC / PoE+	Z4VAC/PoE+
Behymidification device		fes	33	Yes
Other Fencions	The standard of the beautiful or standard	Bailt-in wiper, Deflecter	Rullt-in heater, Rain wash conting.	Built-in heater, Auto Eyelid Mechanism, Rain wash coating EMM-SM287A)

[11] toy to 1200 (11) Asambel (nyflegst at Jean hall bean Oct.) Asambel (11) toy to 1200 (11) the architecture

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		WV-SW395A	WW-SCSBBA HPTERED	WV-SC387A 407207
ententententententententententententente	Andreas and a second se	SOM \$1	1/3 MOS	1/3 MGS
Selisar	Video Cerire	H.264 / MPEG-4 / JPEG	1,264 / JPEG	H,764 / JPES
	H.244 mails etteam	3	2	2
Logic nad Transmission	PF6 multi stream	ģ	9	b
	Smart Cading		1	_
	16:9	1286 x 720	1920 x 9261	1280 x 720
Man, Resolution	4:3	096 × 08ZL	178b × 960	1280 x 960
303 77	H254	30 fps [1,3 HP]	34 (ps (1880p)	30 fps (2.4 MP)
OMER, Resolution	9367	30 tps [1.3 MP]	38 tps [1080p]	30 tps [2.4 MP]
Super Dynamic / WIR / BLC		Super-0	O-radas	Super-D
Davillinh		Yes (ICR)	Tas (ICR)	Yes (ICR)
ARE Carte Back Facult I Prove Assist	Assista	Ago Focial	Auto Focus	Auto Facus
	Calar	0.5 lx @F1.6	ligr@fl.é	U.3 is 49F1.6
	Color (Sens mail	0.83 tr (16s)	1.03 ix (16x)	0,019 tr [16x]
Min. illumination	100	0.06 lx @F1.6	0,06 k#DF1.6	6.04 tx 49F1.6
	BAV Sens and	0.004 (2.1587)	0.004 to (14x)	D.007 to f16x1
	ido ausari ta in	1= 4.7 to 84.6 mm. F1.6	f=4,3 ta 129 mm, F1.6	f=4310129mm,F1.d
USS	1 42 .	4. 4. 7. 11 65.7 dec (9. 1.9 to 21.9 dec.	H; 2,34, to 65,1 ang, 7 V: 1,36 to 38,4 dog.	H: 2.34 to 65.1 deg. / V: 1,36 to 38.4 deg.
Angular field of view	7.3	H: 3.2 to 55.2 deg. / V; 2.4 to 42.1 deg.	H: 1,6 to 45,2 deg. / V: 1,2 to 34,3 deg.	H: 1.6 to 45.2 dog. / V: 1.2 to 34.3 deg.
	Rande	8 to +358 deg.	Endless	Endless
Par	Stered	300 deg/sec	300 degisec	380 deg/sec
	Psnre	-38 to -38 dec.	.25 to -216 deg.	-25 to +205 deg.
	Sport	188 deafsec	300 deg/sec	300 deg/sec
TAR Pacifin		Yes	1	-
Rumber of Penest Doctries		75	526	256
Partial		*	Yes	Yes
refiles		Yes	Yes lativanced)	Yes (advanced)
April 1 English Option Teach		42. processes constructed by the second seco	30c	Jun 1459 with Entre Zoom of 1983
Charles Land There	and the control to th	12x	12	12%
Anto Didon Mellon Balantine		Yes (4-areas)	fes (4-artas)	Tes (4-areas)
United (profilement VMR) [wierrichstein software]	topcinn cofficare	_		-
SUPPLIES THE SUPPL		_	Yes [2-areas]	Yes (2-arous)
Ess Possociem		*	7	74
Andreas de la companya del companya della companya	In Hast	Yes	(2)	Yes
	le flacht in ME	**	**	
1	fol	Yes	Kes Yes	Yes
	Padar	6711/5.726	5,711 [6,724 ALC 1]	G,711 / B,724 / AAC [*1]
	Andia Belansion Alarm	-	Na Yes	Yes
	Carl	Yes (SDRC)	Yes (SDXC)	Yes (SDXC)
	Passward &	The state of the s		1
SU membry Lato	Atlar Bateclint	Add House and Add to the state of the state	Variable Control of the Control of t	Yez
	Audio REC	***	(C) (C) (A)	1,48 (3) (*2)
External I/O		16. (1)	150 (15) (15)	Yes (Mini-Jack)
Monator Dail		Tes it amposite!	read-line) ear	-
Yandal Resistant		ZILI, IKU		3
Water and Oust Resistance	AND THE PROPERTY OF THE PROPER	P. D. L.	mark - (-) (-) (-) (-) (-) (-) (-) (-) (-) (-)	and the second of the second o
Temperature		(A \$2] _ZZ1+ a1 4_ZZ- (A \$2] _ZZ1+ a1 4_ZZ-	+14°F to +131°F	1744 0 1314
Penn Saire		24 VAC / POE+	12 V DC / PaE	12 V DC / PeE
Britamidification device		21,	-	-
		Built-in heater,	Dome less	Dome less
Other Functions		Rain wash coaling (VM-SM2954)	Array Supple	
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		Onvirio	Chyle16
		WV-SC385 407204	WV-5C384
Sensor	The state of the s	1/3 MOS	10 NOS
	Việte Codec	H.264 / MPEG-4/ JPEG	H.264 / MPEG-4 / JPEG
Cadee and	H.Zisk multi strzam	2	1
Transmission	PE6 multi stresm	9	3
	Smart Coding		***************************************
Man Development	16:9	1200 x 720	1230 x 720
SAL, RESOURIOR	4:3	1280 x 940	096 x DB21
	H264	30 (ps (t.3 MP)	30 tps [1.3 NP]
GMax. Resolution	956	30 (ps (1.3 MP)	30 tps (3,3 NP)
Super Dynamic / WDR / BLC	Windowski Charles and Anna Market and Anna Anna Anna Anna Anna Anna Anna	Super-D	WDR
Day/High	H-H-H-Whateland and state of the ball and and an arrange	Yes (CR)	Yes (Flectifical)
ABF (Auto Back Focus) Focus Assist	s Assist	Auto Focus	Auto Forus
	Calar	0.5 kr@Ff.4	6.4 k QE i.e
	Color (Sens up)	0.03 to (1.6x)	[k91] X1 BCB10
Min. Ridination	80%	0,06 tr@F1,6	(5 k GFL)
	- BM (Sens up)	B.804 ty (16x)	0.83 K [16x]
Lens		for 4,7 to 86,5 mm. F1.6	(* 4.7 to 84.6 mm, F1.6
	15.0	1-17 to 55 2 des 14-19 to 31 9 den	H-121m552den /W-10tn 21 0den
Angular field of view	1.7	F 1 2 to 15 1 den 19 2 de 20 1 de 2	15. 1.2 to 54. 2 dear full 2.5 to 5.0 dear
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Auto Tracking		Yes	-
Optiral Zoem		JBX	701
Digital Zoom		12x	Ą
VAID (Video Motion Detection)		fes (4-arias)	Ves (4-ureas)
i-VHD (Intellgent VHO) (w/extension software)	Ensing softward)	**	-
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Max, Connection		14	79.
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Audia	Det.	38	WS
	Cadeo	6.711/6.726	6,711 / 6,726
	Audio Delaction Alarm		3
	Ster	Yes (SDHC)	Yes (SOHC)
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Hondor Out		1955 Mills-Jack)	Yes (Min-Jack)
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ym 30 BSC (1)	
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alm P35 Cayes 30 RK P5	
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Apper or solicition. [77]: Cony test 50 REC. [77]	
Sapermalation (**) Conymistration (*)	
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[11. nSupermalation [72] Conymistration [73]	
LadSupermalation 725 Congres 50 ESC 73	
[1] 381 00 tay to 0.0 (7.) minister respiratory (7.)	

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WU-SPW/STW11

WU-SPW/STW11

1/0 MGS

1/0 MGS 6.711 / 6.726 / AAC fes fes (59XC x 2) Smart-Bof, Built-in hoster, Built-in IR LED See pages 46, 47 4v Yes [4-aread] Yes [7ype2] Yes [8-oreas] 14 Yes [V].52 6,711 / 6,725 / AAC Yes Yes (SDXC + 2) WY-SFV&31LT BRODRIP 1/3 MOS R.Z&4 / PEG 0,0045 lx (164) 0.0 tx GPF1,6 [w/RR) 6 (Yoriable)

Yes

Yes

1920 x 1880

204 x 1534 (*1)

601ps (1000)

30pc (1.100)

Enhanced SB

Yes (CR)

ABF

ABF Yes [311'4]
Yes [mini jack]
50.1, IK10
1P66 / NEWA CX
-48°F To +122°F
17 V DC / P0E
Yes Smart-Oof, Built-in Newter, Built-in IR LED See payers 45, 47 Yes (Y1.52) 3 14.2 to 5.5 to to 1.5 A Halatter Halatter Halatter Halatter 6.9 Gogg. P. 9.3 to 55 dog. P. 17 to 15 dog. P. 10 to 15 dog. P. 6.711 / 6.726 / AAC [-2] Onvir 100 W-5FV7811 & Esgine 11.7 Nos 12.84 / PFS The (52 of the control of the contro Yes [31f*3]
Yes [31f*3]
Yes [8C4]
201, IKIB
IF66 / NEWA, X,
49°F to ~122°F
12 V DC / Poc
Yes 4я Yoz (4-oreas) Yes (SBXC) ı क्राक In Flant
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Smart Leding
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BAY (Sens up) Stot Passward & Alder Detection Audio REC LVMD (fatelligent VMD) (w/extension software) £2.91 ABF (Auto Back Focus) / Focus Assist . VMC (Video Motion Detection) Super Dynamic / WOR / SLC Water and Dust Resistance Codec and Transmission Max. PPS OHax. Rezelution Angular teeks of view Mounting Options Man, Monsteadine SD memory Card Max. Resolution Adjusting Angle Vandal Resistant Other Functions Optical Zoom Power Source Digital Zoom External 1/0 Арреатопсе Monitor Out aigna

Panasonic

NETWORK PRODUCTS

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		WV-SFV311A	WV-SFV31UA HD37aP	C. WINCLAR MANAGEMENT OF THE CO.	Westvielmesty
Applications and address of State of St	and the second s	SUM ST	SOM CAL	1/3 MOS	1/3 H05
	Midner Carbon	H 242 / IPFG	B.264 / 3PEG	9.264 / JPEG	N.264 / JPE6
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Corbec and Transmission	Inches Indian Selection	k [tindahin]	6 [Vaciable]	6 (Variable)	6 (Variable)
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	41.0	1000 × 1000 (+ 11) 1780 × 728	1920 v 1886 [*11 / 1280 x 720	1920 x 1680	1280 x 720
Mar. Resolution	410	120 x 1400 x 151 tonas x 120 t	TABLE SALE	748-153	B96 x 8821
	7.7	1-46H 507	100 (100 E	IdMr/ stille	39(os [1.3MP]
Max. FPS Other Decelution	H.264	(1977) SCHOO	Outpoint (1 2 Mail	Parine DAP	39fos [1,3MP]
Phys accounts	Jres	Gallos El Caraci	t all or to drop	Company Districts	Suner Donamic
Super Dynamic / WDR / BLC		Enhanced SD	Eshanced SD	anger uyaanin	Van Etsebrich
Day/Night	OH/H/MANAGEMENT AND	Yes (ICR)	Yes [Electrical]	YES EXIGERICAL	henraci da
ASF (Auto Back Focus) / Focus Assist	Assist	ABF	Focus Assist	-	-
	Color	8.01 by 40F1.6	0,011 to COF1.6	1,1 ts @F2.3	9.34 ts CSF2.3
	Color (Sens up)	0.0007 tr (16x)	1,0007 tr (16x)	0,307 tx (16x)	9,003 lx [16x]
Aln. Illuminztien	RIW	8.FR x CF1.6	6,198 x 200.0	0.00 tr @F2.3	6.03 tx G8F2.3
	RNO ISans uni	B.B002 (x f16x)	0.0005 tx (14x)	0,005 tr (16x)	0,002 tv (16cd
A STATE OF THE PERSON NAMED OF THE PERSON NAME		te 7.8 to 10 ann. F1.6	f= 2,8 to 10 mm, F1.6	f= 2.8mm, F2.3	f= 2.hnm, F2.3
		N: 28 to 99 deg.	H: 28 to 99 deg.	K: 108 deg.	∰. 100 deg.
and the State of Land	10:9	F:161054 649.	V: 16 to 54 deg.	V. 60 delj.	V: 35 deg.
galai Heka ar vice	E:y	B: 28 to 97 deg. V: 71 in 72 deg.	H; 28 to 19 deg.	H. 199 Sec.	H: 198 deg. V: 73 deg.
an according to the Property of the Personal Control o	Pro	-180 to +188 ther.	-18ff to +186 deft.	-20 to +20 deg.	-20 to +20 deg.
Adjusting Angla	Till	200 387 et 58"	-85 fb +85 deg.	-21 to +78 deg.	-25 to +40 trg.
0.00		2 kg	3.65		-
delicat scolar		27	*7	27	75
Ulgitat Zaorii		A	V=1/2	Vac Lannes	Yes (4-preas)
WAD Friden Mation Detection)		Tes i4-areas	(control ca)	icensus at the	Var (Tanco)
LAND (Intelligent VMD) (wientension software)	encion software)	Yes	ie.	res (19per)	les (guest
YIOS		Yes 18-toteds	Yes la-areas)	iez (p-mens)	(600)(0.0)
May, Connection		×	7.	14	14
	ln [Line]	žą.	1		1
	in (Built-Is MIC)	1	-	32	23
ALG:0	0.11	Ð	1		**
	Codec	6,711 J 6,726 J 4AC		G.711/0.726/AAC	6,711 / 6,726 / AAC
	Audio Detection Alarm	33)	,	ગ્ર	Ē
	Sin	Yes (SDXC)	Yes (SDXC)	(State)	Yes (SDXC)
SD mennoy Card	Password &	že,	Yes	Yes	ž.
	Atter Detection	Voe	-	ta),	£Ę,
anna harman and the state of th	Addin not	(C)	[7.4] [J.4]	-	-
Therapt I/IB		(o history)	Was Irolai iambi		-
Maniter Dut		TOTAL TACA	OLDE 1874	RCO	1K10
Validate Acession		TO MEN / SIGN	1P66 / NEMA 4X	P56 / NEM 4X	P66/1844X
A STATE OF THE PROPERTY OF THE	-	-49°F 10 +127°F	49°F to +122°F	4-671+ M 3-67*	-49°F to +143°F
cmperature		in operation)	(in operation)		
Power Source		12 V DC / PoE	12 V DC / PoE	PoE	PoE
Dehumidification device		sal	Ţes	***	
Other Functions		Bullt-in heater	Built-in heater	Raikray Application (EMS0155-13, EMS0121, EMASS45, ENS0490 and PEE-2010 (SEV13164))	ENSOITS, ENCORT ENSOISS-13, ENSOITS, ENCORTS, ENGOLFS and ECE-211 (SPV) (IM))
7 7 7 7 7 7					

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		WEIW -	WEW AND	100		
Annearone		9	9.		þ	
		Onvie 100	Onviel 60 WV-SBV11fM (*4)	Onvie 10 WESW115	Onvietoo WV-SPR631L HD14887P	Onvirigo WV-SFR611L 897209
Course	-	1/3 MGS	1/3 MOS	1/3 NDS	1/3 MOS	1/3 MGS
INII multiplication and a second second second	Video Cadec	H,264 / JPEG	H,264 / JPE6	H,264 / JPE6	H,264 / JPEG	R,264 / JPEG
	H.765 multi-consm	4	*	1	Ą	7
Todec and Transmission	IPEK mulin careem	é (Variable)	6 (Variable)	ģ	6 Wariable)	6 [Variable]
	Smart Coding		_	-	និ	žį.
	16:0	1920 x 1080	1269 x 720	1280 x 720	1920 x 1089	1260 x 720
Max, Resolution	1.9	ZB48 x 1536 [*2]	1288 x 948	1250 x 950	2048 x 1536 [*1]	1280 x 940
	136 H	30fes 1980al	30fps (720g)	30tps [1.3 MP]	6080) sq109	68fps (720p)
Max, FPS CMax Recolution	1,254 1,054	Tarine (3 MP)	38fas (1,3 MP)	30tps [1.3 MP]	30tps (3 MP) (*1)	38fps (1.3 MP)
A Property of the Party of the	JUEN	MOR	NO.	Super-0	Enlaneed SB	Enhanced SD
Designations of the Control of the C		Yes (Bectrical)	Yes (Bectrical)	Yes (Electrical)	Yos (ICR)	Yes (ICR)
Lagringin. LOC (14do farb Earne) (Forms besief	c besief	1		-	ABF	ABF
na i dena mana mana	Color	L1 tx @F2.2	9.94 lx @F2.2	0.8 tx 48F2.2	B.04 tx 40F1.3	8.01 tx GPF1.3
	CaloriSensual	0.007 [x (1)6x]	0,003 fx (14x)	3,05 br [16x]	0,003 tx (14x)	8,0007 tx [16+3
Mn. Usaningtion	BW	1.06 tx GF2.2	1.03 ts 40f7.2	0.6 tx 4057.7	B.D tx @F1,3[w/lR]	0.0 tr @F1.3(m/18)
	BAM (Sens trail	0.004 ix (16x)	Ext 116.5	2.04 lx [14x]	1	***
	and the second s	(a. 1,95 mm, F2.2	f= 1,95 mm, F2.2	la 1,95 mm, F2.2	f= 2.8 to 10 mm, F1.3 Motorized	t.e. 2.8 to 10 mm, Pt.3 Motorierd
	16:9	H: 109 deg.	H: 134 deg.	H: 104 deg.	H: 28.8 to 102.9 deg. V: 16.0 to 56.2 deg.	H: 24,4 to 94,0 deg. V: 14,7 to 51,8 deg.
Angular field of view	£13	F. 70 deg.	H: 194 deg.	H-104 deg.	H: 23,8 to 94,6 dog. V: 17,8 ts 62,6 dog.	H: 26.4 to 94.0 deg. V: 19.3 to 69.5 deg.
		47 W.G.	420 to 120 day	-20 to +36 dea	-180 ts +180 den.	-180 to - 180 deg.
Adjusting Angle	29	-17g to +170 deg.	-17.0 (0 +17.0 cm).	-30 th +30 dec	Q to +05 deg.	Q 10 +65 dag.
	141	-90 to +10 teg.	- San Diagram	1	3.6x	3.64
Optical Zoom		- Communication of the Communi	76	NJ	17	.57
Digital Zoum	appropriate hardered by the specific of the second of the	JX Sections	Voe (L-street)	2	Yes A-greats)	Yes (4-areas)
VMB (Viges Motion Detection)		(contract of the local	the state of the s	(mitalitation management (mitalitation)	Yes [Type2]	fes [Fpe2]
HIJ (INTEXTIGENT VINU) (WAS	Gersun sonskire	Ver Barnari	Yes [8-areas]	Yes (Fares)	Yes (8-4/245)	285 (9-8reac
ED.		71	1,	14	14	7.
IA, Militarium	la Hinel	郑	55)	_	S-BA.	ž
	In Dealth in Mic	-	*	1	1	1
	Bot	Ž	Yes	***	Tes	žę.
	Codec	6.726[AOPCM]	6.726[AUPCM]	-	6.711/6.726/AMC	6.711/6.726/AAC
	Audio Detection Alarm	1		1	şı,	žž
	Stat	Yes (SDXC)	Yes (SDXC)	Yes (SDRC)	Yes (SDXC x 2)	Yes (SDXC x 2)
SD memory Card	Password &		*	ı	Yes [W.52]	Yes (91.52)
	Audio REC	-	1	****	ž	ğ
Peremai I/0		*	**	1	Yes (3) [*2]	tes (3) 1-2)
Manitarflut		_	-	1	Yes [mini jack]	Yes (mini jack)
Vandal Resistant	***************************************	IKIO	Kis	20), IKTS	20), IKM	201, JK10
Mater and Dust Resistance		IPSK9K / IP66 / NEMA 4X	PSK9K / \$P66 / NEMA 4X	P66 / KEMA 4X	-	
Emprejaire		-49°F to +140°F	-49°F to +148"F	-22°F to +122°F	+14°F to +122°F	1.77]+ al - 1/1+
Pewer Source		PoE	PoE	먎	12 V DC / PuE	12 V DC / PaE
Dehumid!]]cation devkra		1	-	-	-	1
Other Functions		HIL-STD-8186 EN50155-13, EN50121,	HE-STO-0186 ENEO155-13, ENEU23, Pares of Calonso	ENSO155, ENSO121	Smart-DoF, Brilli-in 19, LED	Smart-Dof, Build-in iR LED
	电弧 医阴道 医乳体	ER40045, EN5U475,	ENGRAPHO, OLDANIE,			

NETWORK PRODUCTS

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Арреатисе					
		Onvirige	Onvielo	Chvirie	Onvirigo
		WV-SFR531 Hatelip	WV-SFR311A B0228P	WV-SFR310A	WV-SFN631L Holisəəp
Sense		1/3 MOS	1/3 MOS	1,5 MOS	13 H0S
	Vides Codec	H.264 / JPEG	H.264 / JPEG	H.264 / JPE6	H.264 / JPEG
	H,264 muttl stream	7	,	,	7
Labec and Intilismission	JPES multi stroom	6 (Yariablu)	6 (Variable)	6 (Yariable)	6 (Yariable)
	Smart Couling	25	şaj	, les	řes
***************************************	16:9	1928 x 1088	1920 x 1080 (*11/1280 x 720	1970 a 1060 (*1) / 1280 x 720	1978 x 1858
мак, кезопапп	4:3	2048 x 1536 [*1]	1280 x 948	1280 x 948	2048 x 1534 [*2]
Apr. FPS	R.754	lqBBij sçild	50tps [720p]	60Tps [7.20gs]	60lps (1080p)
GPMax. Resolution	JPEG	(1-) [AM C) salide	MP C. F. Sqibt	30(ps (1.3 MP)	30(ps (3 MP) [-Z]
Super Dynamic / WBR / BLC		Ephanced SD	Enhanced SD	Enhanced SD	Enhanced SD
Day/Kight	The state of the s	Yes (ICR)	Mes [1CR]	Yes [Rectrical]	Yes (JCR)
ABF (Auto Back Focus) / Focus Assist	r Assist	A8F	285	Focus Assist	ABF
	Color	OUT IX SPF1.6	LSILKOFLÉ	4.01 is @FL5	1. SERING SERIES
	Catar (Sens up)	0.005 lx (16x)	(18x)	(181) ki (187)	0.003 tx (16x)
Min, Illumination	W8	0.01 tx 49F1.6	\$1903 k (0FL) 6	8,008 br @F1.6	8.0 to 40F1.3 tw/fR
	B/W (Sens up)	1,007 to [16x]	0.0002 tx (16x1	0.0005 tx (16x)	
Elents		6-2.8 to 9.5 mm, F1.6	f=2,8 ts 18 sm, F1.6	(= 2.8 to 10 mm, F1.6	f= 2,8 to 10 mm, F1,3 Materized
	16:9	H. 3! to 109 dag.	8; 28 to 99 deg. U. 16 to 54 deg	H: 28 to 99 dag. V: 18 to 54 dag	H: 29,3 to 104,1 deg. V: 14.7 to 56.8 den.
Angolar field of view	6-7	H: 26 to 39 deg.	N: 28 to 97 deg.	H: 28 to 99 deg.	R: 24.9 to 85.5 deg.
***************************************		P. 20 to be deg.	V: 41 18 7 4 189.	F: 2: 42 /4 (mg),	K. 10.5 to Day up.
Adjusting Angle	Par s	+120fright) to -240(sett) deg.	+178 ts -248 dag.	+128 to -248 deg.	-180 to +190 day.
	III	Tan on- of co-	- Pan co - co - co	- Francis	A C
Uplicat Januar		The Management of the Comment of the	MONTH TO THE PERSON NAMED IN COLUMN	W	X7
INAD DEATER MANAGEMENT		And Property	Var Lannel	Vac (2, omac)	Voc 14-amuel
YANU LYIGED MODEN DOISECHON	nacian coffusion	Tes (Yes)	tes la traces	(4-0) (55)	Yes (Tyne?)
FYTH (IIII III III III III III III III III	ENGINE SPINSOICS	See [G.score]	Vec (Range)	Yec [2,amas]	Yes (8-areas)
Man Consolion		Inches at Car	71	71	71
PHI. CASINGABAIL	In Itina	Yes	24)		50)
	In (Built-in Miri	3 1	-	1	-
	The state of the s	į	3]	1	ž
	Padae	6711/6774/1460	G 711 / G 776 / AAC	-	6.711/6.726/AAC
	Audio Detection Alacm	ž	SE SE	-	Yes.
management described and descr	15.5	Tes (SDXC)	Yes [SDXC]	Yes (SDKC)	Yes (SDXCx 2)
SD memory Card	Password &	59,	Yes	las.	Yes (V1.52)
	Auer Detection	ag.	Yes		zi,
Coloured 160	Statement of the Control of the Cont	Tan [7] [4-4]	Yee [1] [-2]	Yez [3] [4.5]	Yes [3] [15]
Months for	-	Yer (mlei lock)	Yec fraini tacki	Yes facini back	Yes (min) (ack)
Vandal Resistant	**************************************	20. KTB	201, 1810	263, IK10	+ +++++++++++++++++++++++++++++++++++++
Water and Dust Resistance			1		ı
Temperature		+14°F to +122*5	+14°F to +122°F	+14°Fta +122°F	4°521+ 01 4°51+
Power Source	and the state of t	12 V DC / PoE	12 V OC / PoE	12 V DC / PoE	12 V OC / PoE
Dehumidification device		-	ana.	-	1
Other Functions		ı	i	I	Smart-Bof. Bult-in is LED
	Assessment and a second	namenan anaman di naman di salah bisah bisah bisah di	***************************************	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	

Yes 1920 x 1080] (1-1080 x 720 Fes 6.711 (6.724 (AAC 7es 7es 7es Onvirio WY-SFHJITA UD720P 13 NOS H284 JRES (# 28 to 10 mm, F1.6 H. 23 to 100 day Y. 15 to 55 day Y. 21 to 100 day H. 21 to 100 day -120 to -240 -14°F10 +122°F 12 V IC / PoE See pages 46, 47 1280 x 946 401pc [1720 x 940 501pc [1730] The fill of the fill Yes Yes (3) (*3) Yes (mini jack) 6 (Variable) 7. m ş # 12 to 170 deg. # 12 to 10 de E3711/6.726/AAC E7711/6.726/AAC Tes Tes OTWEE 1000 WV-SENST 1000 WV-SE 1-2.8 to 9.5 mm, F1.6 See pages 45, 47 Yes (3) (*2) Yes (mini jack) 'n F - 2 a p 14 mm F 1.3 Tes 6,711 / 6,726 / AAC te Yessonca 2 +14°F to +122°F 12 V DC / PoE See pages 46. 47 Yes (31 P-6) Yes (mini jack) Tex (VT.52) in (Built-in ME) Out Codes Audie Detection Marm Color (Sens up) B/W (Sens up) Digital toon YAPD (Video Medion Detection) HYAPD (Index Medion Telection) YES Max. Connection 16.19 £ . ABF (Juto Back Focus) / Focus Assist **2** # Honius Out Vandal Resistant Vizur and Oust Besistance Tomperature Super Oynamic / WOR / BLC Detamidification device Codec and Transmission Other Functions Max. FPS GMax, Resolution Angular field of view Ноиябяд Ордоня Min. Mumination SD memory Card Adjusting Angle Max. Recotulies Power Source Appearance Day/Hight

ftt unskapakeledenskindensener frij kunn dittoffejt in "kaster afnivent, flom in zijlans del Bene in zidat defet verdi Fis darme i den versjennens, denn dazilansagt dam in zidat delphi revacti

NETWORK PRODUCTS

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Аррейанке			NEW	MEW .
Appairance		The second secon	SANTANCE CO.	
			D)
		Onvie	Onvierdo	ODMETO
		WW-SFK310A	WW-SFN130	WV-SFH110
		RD7289	ACCEPTED AS AN ACC	10728
original	Chan Calm	000 64	230) 276 11	10 Sec / 1055
	H 264 multi-atmam	77 17 / 1777	7	7
Codec and Transmission	The second second	1.00	\$ 11000	
	JPEO MURO STRAM	6 (445)50(B)	a (Variable)	b (Variate)
	Smart Coding	ŭ	ž	Ē
Pac Daenhalina	16:9	1920 x 1080[*1]/1280 x 720	1920 x 1080	1280×728
MAT. NESBAURDII	£:7	1250 x 948	5051 x 8502	1280 x 960
Name and Address of the Address of t	H2H	60(tes (720a)	30525 (3MP)	300s (1,34P)
COMer. Resolution	534	386s (1.3 MP)	300s (3MP)	30fas (1,34P)
Sugar Dynamic / WBR / BLC		Enhanced SD	Semen Dynamic	Super Bynamic
BayMinh		Yes [Bectifical]	Yes (Startifical)	V.v. (Flertidal)
ARP farte Back Secure Forms Seciet	Leciet	Fortis des st	-	
and i francisco	1	100000000000000000000000000000000000000		0 000
	CAST	U,B1 ix 4071,h	U.7 IX GREZ.	B.JA IX GP12,3
Min. Micmination	Colar (Sens up)	D.0007 (r (14x)	0.007 k 16k)	D.(M21 kx (116x)
	10M	Libra Off.	0.08 ts 42F2.3	0.00 G @P2.3
	BM (Sens up)	0,6005 tr (16+)	0.005 tv 164]	1,002 tv (16x)
Lens		1# 2,8 to 10 mm, F1,6	F 2,8mm, F2,3	1# 2.Bmm, F2,3
	5° 91	H: 28 to 180 deg. 15 15 to 54 deg.	H: 108 deg. Y: 60 den.	H 100 deg.
Angular fletd of view	6:3	形 28 to 100 top.	F. SP deg.	R. 100 deg.
		4: £1 to 70 ang.	V: on drig.	*Sup (*/)
Adjusting Angle	738	+120 to -240 deg.	-20 to +20 deg.	-20 to +20 deg.
	Ĕ	-85 to +85 dog.	-28 to +98 dag.	-20 to +93 dag.
Optical Zoom		3,6к	***	1
Digital Zoom		3	**	*
YMD (Video Motion Detection)		Yes (4-aread	fos (4-areas)	Yes (4-areas)
EVMO (Intelligent VMD) (w/Extension software)	osion software)	ž	fes [Fype2]	(Sad(F) 20)
YOS		Yes (8-areas)	Yes (B-areas)	Yes (8-areas)
Max. Connection		71	22	九
	In (Line)	ı	-	1
	In (Built-to MC)	ž,	Yes	za),
Audio	Out	-	44-	
	Codec	6.711 / 6.724 / AAC	6.711 / 6.726 / AAC	6,711/6,725/440
	Audia Detection Alarm	Yes	Kes Kes	201.
	296	Yes (SDXC)	Yer (SBXC)	Yes (SDICC)
SD memory Card	Password R.	ra),	5)	fes
	And Descriptor	ν.	200	Vac
Coloured 177	Allen nc.	105		187
CATOLISA IPP		to 1 to 1 on 1		
nomer un		MZ (BBB BEK)	_	_
angal Kesserii				_
Water and Bust Resistance			,	
Temperature		+14°F ta +122°F	+32*f to +166*f	+32%F to +184.ºF
Power Source	and the state of t	12 V DC / PaE	304	Por
Dehamidification device		1	J	1
Other Functions			-	_
Mounting Options		See pages 46, 47	184	ABT

PT), web Sooja deligious kinstons navel. TS) Abrea hallowykijat ki, kala tone ujustenski, Alusa in 3 Murra bull, Kuses tu 3 Hill Deciliki for navol. PSE, kins hal kasa den edecement, kinst haz Usera Dal, Alman in 2 User Lees (af terces).

| 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1924 | 1.5 tr 60 f2 4 0.1 tr (1sx) 1.2 tr 60 f2 4 0.00 tr (1sx) 1= 0.837 cm, f2.4 H. 180 log. Y: 181 deg. Onvirio WV-SF438 Bonesin 1/3 HOS H2M/JPE6 768 768 768 768 6.711/6.726 3.221+ 18 d.71+ 12 Y DC / PoE Yes (4-ares) 360° manitarag Yes (2-areas) 作同当 Yes (SDXC) Onvirio WV-SF448 BDIOHEP 1/3 HOS HZ64 / JPES 15 k @F1,4 61 k (leg) 1.2 k @F2,4 6.08 k (leg) 1-0.83 c m, F2,4 H 152 009 V 176 de). 360° monitoring. Mechanical sbutter +14°F to +127°F 12 V DC / P0E Yes Yes Yes 0,711/0,726 -Yes (SDXC) -*es (3] [*4] Ceiling / Wall / Mount bracket: 4 64 F to - 122 F Basktop / Pripod: + 10 F to + 130 F WV-SFN480
WV-SFN480
AX Engine
VZ-HOS
H.ZM-/ JPES 2562-7400
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2015-2 360° manitarug Yes (SDXC) Yes (3) [1-3) Yes (ACA) Yes (ACC) 12 V DC / PoE OTVIFE O WASHGASHAPI BENGED 12 MES 12 MES 12 MES 30tps (1000p)
15ps (3 MP) 7 30tps (1000p)
Super-D
Yes (Electrical) 360° manioring. ENGO155-13. ENGO125-13. ELEGETS. DINSSEN.) 1920 x 1080 H.264: 1200 x 960 JPEG : 2048 x 1536 15 tr Off X 15 tr -40"F to +122"F 503, IK10 1P66 / NEMA 4K 12 V DC / PDE Yes - Ic-||E) sal 4x 4x (4-areas) Yes (2-areas) Yes (SOXC) 額 Onvie 1 00
WV-SPV481
4% Engliss
1/2 MOS
R.ZM/JP66 -Nes 6.711/6.778/AAC 360° monitoring, ENSB156-T3, ENSB121, DINSB10 Test (1910 Only)

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3050 Yes (ACC)
Yes (BCA)
50J, K18
P66 / NEMA 4X 411Fto+1221 for (4-4rres) Yes (1ype3) Yes (8-arres) 12 V OC / FoE Yes Yes (50XC) **≠** 30 te (Line) fr (Bult-in MC) Out Codec Audio Detection Alarm Video Codic H.ZSA multi stream JPE6 multi stream Smart Coding Ogjat Zoon VHO (Yase Notion Belection) VHO (Intelligent VHO) (wieckension software) VRS Color (Sens up)
B/W
B/W (Sens up) Stol Password & Atter Dotection Audio REC E: --Day/Night ABF (Auto Back Facus) / Fecus Assist Super Dynamic / WDR / BLC Water and Dust Resistance Codec and Transmission Dehumidilication device Angular Hold of view Max, FPS @Max, Resolution Min, Humination Adjucting Angle SD memory Card Other Functions Max, Resolution Max. Connection Vandal Resistan Temperature Power Source External 1/0 Audio

ricona nakelinasotu, kikaneta, cinisna, ikakelinankii, pidaneen 171 dara bilminoi mulama dal danidalli belidi needi Iyadarin ikaraliikoo dal danislatoolisi keedi. Feldamaliimee nemela mamalkamaal dara kilkoolisi needi

See pages 46, 47

See pages 46, 47

Mounting Options

FTWORK PRODUCTS

2,015,017,01

Panasonic

SAME OF

Appearance					
		Onvirigo	Onvirigo	Onvirigo	Onvirigo
		WW-SPV781L	WK-SPW631LI	WV-SPW631L HEWICOF	WV-SPW611L HO728F
Sensor	and the second s	1/1.7 +405	1/2 MBS	10 MOS	1/3 808
	Video Codor	H.264 / JPEG	H.264 / JPEG	H.264 / JPEG	11.264 / JPEG
Souther and Tennemberies	H.264 multi stream	4	,	,	ŗ
autor alla Helicificanul	JPEG multi ștream	1	5 (Variabia)	6 (Variable)	6 (Variable)
	Smart Colling	Yes (GOP Only)	ឆ្ន	, les	/ks
der Beenfelten	16:9	3848 x 2168	1928×1080	1920 × 1060	1280 x 728
	4:3	4000 x 3000	2048 x 1534 [*1]	2048 x 1538 [*1]	1280 x 948
Mar. FPS	H.264	JOEps (4K)	60fps [1080p]	60(ps [1088p]	60fgs [728p]
BMax, Reschribs	JPEG	15fps [12 MP]	30fps (3 MP)	38fps (3 MP)	3Dfps [1.3 MP]
Super Bynamic / WOR / BLC		Wei	Enhanced SD	Enhanced SD	Enhanced 50
Day/Night		Yes (ICR)	Yes (ICR)	Yes (ICR)	Ves (1008)
ABF [Auto Back Fecus] / Fecus Assist	Absist	48F	382	384	ABF
		LINGFLA	8.06 tr @F1.6	0.04 to GPT.3	0,01 tx GPF1,3
die 10 militaries	Catar (Sens up)	LB2 br [16x]	8.094 ts (16x)	0,003 tx (36x)	0.0007 tx (16x)
THE THE PROPERTY AND THE	8/4	0.0 tx @F1.6 (w/R)	8.8 tx @F1.6[#/R]	0.0 tx @F1.3[w/lR]	8.8 tr @F1.3[w/IR]
	B/W (Sens up)	j	1	_	ł
SUPT		[=4,2 to 25,2 mm, F1.6 Hoterfeed	1= 9 to 22 mm, F1.5 Hotarized	f = 2,6 to 10 mm, F1,3 Materized	f.« 2,8 to 10 mm, F1,3 Motorized
	18:9	H: 17 to 97 deg. V: 9,4 to 55 deg.	H: 13,8 to 23,5 deg. V: 7,7 to 18,1 deg.	H:30.9 to 115.4 deg. F: 17.4 to 57.3 deg.	H: 28.4 to 96.2 deg. V: 16.1 to 52.3 deg.
Angular tieks of snew	£:7	H: 18 to 101 deg. V: 13 to 76 deg.	H: 11.5 to 27.4 deg. V: 8.6 to 20.1 deg.	R 25,8 to 86,4 deg. V: 19,3 to 63,9 deg.	H; 28.4 to 94.2 deg. V: 21.4 to 71.0 deg.
Annual Control	Pan	_	*	-	1
atgusang wagte	世		-	J	
Opitical Zeam		x,	2,4x	3,6x	3.6%
Digital Zoom		ž.	ž,	tk.	ţ,
VMD (Yides Motion Detection)		Yes (4-areas)	tes (4-amas)	Yes (4-areas)	Yes (4-areas)
i-VHD (Incelligent VMD) (w/excession scrivare)	ension software)	1	Yes (Type?)	Yes (Type2)	Yes (Type2)
VIDS		Yes (8-press)	Yes (B-areas)	Yes (8-ureas)	Yes (B-areas)
Max. Eoonection		Ħ	71	14	22
	In (Line)	ž,	fes	Yos	જ્ય
	in (Built-in MIC)		1	-	1
radio .	Out	Yes	Yes	Yes	Y.
	Codes	5,711 5,776 JAC * 2]	6.711 / 6.726 / AAC	6.711 / 6.726 / AAC	6.711 / 6.726 / AUC
	Audio Detection Atarm	1	23/	Ñ	Yes
	Stel	Tes (SDRC)	Yes (50XC + 2)	tes (50XC x 2)	Yes (SDXC x 2)
SD memory Card	Passward & Alter Delaction	-	Yes	ž	2 <u>)</u>
	Audio REC	श्र	ies MACI	YELMC	Yes IAAC)
External I/8		** (3) [*3)	(*)[6] say	Yes (3) [*4]	Yes [3] [*4]
Monitor Out	and the control of th	Yes (RCA)	Yes (RCA)	Yes (RCA)	Yes (RCA)
Vanial Resistant		201, IK10	-	***	1
Water and Oust Resistance		IP66/NEMA.CX	IP66/NEHA4X	IP66 / NEMA 4X	P66/N944.CX
Temperature		-49°F to +122°F	-48°F to +122°F	-48°F to +122°F	-40°F to +122*F
Power Source		12 Y DC / PAE	12 Y DC / PAE	17 V BC / Pos	12 V DC / PoE
Dehumidéfication device	Table State of State	31	Teg	Yes	/es
Other Functions		Built-in heater. Rain wash coallog, Bailt-in IR LED	Built-in heater, Built-in IR LED	Bailt-in heater, Built-in IR LED	Built-in lit LED Built-in IR LED

P. Der Bernes (F. Der Leich Laus Lieben Lieb

Onvie i GG WW-SPN511 B0723P 13 N0S B284 JPEB Optional Extension Unat See page 51 *127t0 *127f 6 (Variabel) 1200 x 726 1200 x 126 6 thes 7720 1000 x 642 6 thes 7720 1000 x 642 10 Yes (3) [-2] Yes (3) [-2] Yes (RCA) CS Mount 12 V BC / PAE 超 ž Optional Externion Unit See page 51 CONN F 100 WV-SPM-630 WV-SPM-630 WV-SPM-630 WV-SPM-630 WV-SPM-630 WV-SPM-630 WS-SPM-630 +14°F to +122°F 12 V DC / PoE 0,003 ts [16x] 0,01 tx 20f1,4 0,0007 ts [16x] 0.54 kr@F1.4 Tes (AAC) Tes (3) (*2) Tes (RCA) CS Neurit Ē OTAVE 1 GO WP4-SPWATTAL BD7200 U7 HD824 JFEB 4 4 4 4 4 17 HD824 JFEB 1920 x 1058 | T284 JFEB 1930 x 1058 J 6-28 to 16 mm, Fl.≱ R. 28 to 102 eag. V. 16 to 55 deg. R. 28 to 102 eag. V. 23 to 74 deg. -180 to -180 deg. 0 to -90 deg. 3.6s Tos Built-ia IR LETI Soe page 51 P66/REMA 4X -40°F to +122°F 12 V DC / Pae 0.0 tx 60F1.6(w/RR) Yos [4-areas] Yes [Type2] Yes [8-areas] Yes [AAC] Yos (3) (*2) Yes [RCA) Onvirigo WV.SPW531AL BRIGHED 13 NOS 13 NOS 1.005 to (16x) 0.0 to (20F1.6(w/m) 1-2.8 to 10 mm. Fl.d H. 51 to 172 dag N. 77 to 50 deg N. 18 to 51 deg N. 18 to 51 deg 13 de 13 de 14 de 17 yez (A sams) Yez (A sams) Yez (A sams) 4 (Wartable | 2048 x 1089 x 10 837 k ©F1.6 Yes [AAC] Yes (3) [*2] Yes [RCA] ş ĸ Onvir 1 00 WY-SPW611 BYZHP 13 H05 H24/ JPE3 8,0002 tx (16x) (= 2,8 to 10 mm, F1.3 Materited Yes BJ11/6J726/AAC BJ11/6J726/AAC Yes SOXC x 2] H: 78,4 to 96.2 dag. V: 16.1 to 52.8 dag. H: 28,4 to 96.2 dag. V: 21,4 to 71.8 dag. 6 (Variobic) 178 1220 x 726 1720 x 746 6055 1720 x 746 12 V DC / POE Yes (4-areas) Yes (1ype2) Yes (8-areas) Yes (AAC) Yes (3) [*4] Yes (RCA) 3,41 ž Advino. ad Operator, Well / Bill. Day/Regit Advino Dack Feruis/ Feruis Assist Advino Dack Feruis/ Feruis Assist Cher Sens up) By W. Edec vol By W. Edec In [Jane] In [Suitt-in MC] Out Codec Audio Dobection Alarm Moto Code N.24. multi stram PEE multi stram Smart Coding 16.3 17.3 17.3 17.3 Stot Password & Atter Detection Audin REC VND (Video Molton Delection) |-VMD (Intelligent VMD) (w/extension software) 4:3 Vandal Resistant Water and Dust Resistance Determidification device Codec and Transmission Mar, FPS OMax, Resolution Angolar Held of view 50 memory Card Adjusting Angle Max. Connection Other Functions Max, Resolution Power Squrce Optical Zopm Appearance Andle

Nourling Options See page 51 See page 51 To page 52 To page 51 To page 52 To

NETWORK PRODUCTS

Panasonic

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Max Resolution

Арреалисе		Onvir 190	Onviel 60	DRVIF (60	OnviFIO
		WV-SPN531A RD10RUP	WV-SPN311A BO224P	WV-SPN318A nortor	WV-SP105 10770P
Sensor	more than the second se	173 MOS	1/3 MOS	1/3 MOS	1/3 MOS
	Video Codec	H.264 J.PEG	H.264 / JPEG	4,264 / JPE6	H.264 / JPE6
	M.264 multi obream	4	,	,	2
Conscard Transmission	JPE6 mutti stream	6 (Variable)	é (Yariable)	6 (Variable)	ç
	Smart Coding	ž,	Yes	les .	1
	16:91	1928 x 1080	1920 x 1080 (*1) / 1289 x 729	1920 x 1880 (*1) / 1288 x 720	1次Dx7四
Man, Resolution	4:3	2843 x 1536	896 × 0821	1280 z 958	1280 x 945
PR	H.264	(400pt 100pt	40(ps [720p]	641pt [720pl	30(ps [1.3 MP]
Chian, Recolution	JPEG	30ps (3 MP)	JB[ps [1.3 MP]	30tpc1,3 #P!	30tps (1.3 MP)
Super Dymanic / WOR / BLC		Enhanced SD	Eahanced SD	Enhanced SD	BLC
Day/Klight		Yes (ICR)	Yes (ICR)	Tes (Electrical)	Yes (Electrical)
ABF (Auto Back Focus) / Focus Assist	s Ausist	485	J8Y	Focus Axxist	1
	Color	1,34 tx QF1,4	0.01 lx @F1.4	0.01 tx GF1.4	0.8 tv CF7.2
	Color (Sens up)	D.103 tz (16x)	0.0007 lx (16x)	0.0007 tx (16x)	0.05 tx (16x)
Min, Illumination	M/B	Liberil	7148 A COUT	\$.1760 vi 800.8	0.4 k @£2.7
	B/W (Stens urp)	1,0007 lx (14x)	[19]() A] (70)(E(1)	[x91] XI 9000TB	alia le l'éxi
Lens		CS Mapri	CS Meuni	CS Heunt	1= 3.5K mm, E2.2
	16.9	*	-	-	H: 70.3 dag. V: 42.6 dag.
Angelar field of view	4:3	1	a.g.	1	H: 70,3 deg. V: 55.4 deg.
	Pan	1	**	-	1
Adjusting Angle	2	1	1	-	t.
Optical Zoom	1 1 1 1 1 1	1	1	**	ı
Digital Zoom	***************************************	**	4	×ŗ	X9
VMD (Video Motion Detection)		(caue-7) saj	Yes (4-areas)	Yes (4-greas)	Yes (4-areas)
i-VAD (Intelligent VAD) (w/extension softward)	tension soliviero)	Yes [Type2]	Yes (Type2)	Yes (Type2)	}
WES		Yes (8-aras)	Yes (B-aruse)	Yor (5-sross)	Yes (1-areo)
Max. Connection	The state of the s	25	ķ	7	71
	In (Line)	3 2	翘	1	1
	la (Built-in MC)	1	1	şą	1
Audio	Out	ş	. Yes		1
	Codec	B,711 / B,726 / AAC	G.711/G.726/AAC	6.711 / 6.726 / AAC	1
	Audio Dolection Alarm	1 1 1 1 1 1 1 1 1 1	Yes	501	-
	Stol	Yes (SDXC)	Yes (SDXC)	Yes (SOXC)	1
SD memory Card	Password & Alter Detection	Yes	ş	Yes	ı
	Andla REC	Yes (AAC)	Yes (AAC)	'es [AAC]	-
External 1/0		Yes [3] (~3)	Yes [3] [*2]	Yes [3] [*3]	-
Monitor Out		Yos (RCA)	Yos (RCA)	Yes (RCA)	1
Vandak Resistani		-	*	,	1
Water and Dust Resistance		-	ı	1	ı
Temperature		+1475 to +122*5	+14°F tn +122°F	+14%10+122%	-32*Ftu+104°F
Power Source		12 V 3C / PaE	12 V DC / PeE	12 V BC / Poé	12 V BC / PaE
Dehamidification device		‡		-	1
Other Functions					

(Ti), with Dengal full-film now bennehe name). (Ti), sizon hollogyddgai is, Ann wa migarawel, Amw is Illam bel, Amas is Illid Belligt for moth (Ti), Alem is I bela ober adaptines). Alem fal karm dal, klem is I best bell for each

0.5 t G722 0.35 t G722 0.35 t G722 0.45 t G72 0.45 t G7 Onviero WY-ST162 VSA 1/4-MS --+32** to +104°F 12 V BC / PAE 640 x 368 818 x 688 819 x 680 305x (3VCA) 315x (3VCA) 81 C 7x (Electrical) 0.14 69:12 0.053 kt [tot] 0.53 kt [tot] 0.54 kt [tot] 0.54 kt [tot] 0.54 kt [tot] 0.55 -37°F to +102°F 12 V DC /FnE Onvir | 0
WV-ST165
WV 1280 x 728 1280 x 728 20(ps. (1.3 MP) 30(ps. [1.3 MP) 81C Ves [Electrical] s 0.6 to 697.2
0.65 to 75.5
Onvirio WV-SW172 Vox 1/4 MS R.264 J.PE6 640 x 360 864 x 600 30 ps (5VGA) 30 ps (5VGA) 81 C Yes (Etecricial) Tes Tes Tes 6,711/6,778 /es (3| 1-1] /es /es | P55 | P55 | 12 V DC / F0E 72 1 8 Wireless [11 n/b/g] Onvie 1 O Wy-swiftw 14 Mos 12 Mos 1209-7707
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-..*F to +12.7*F 2.16 GF2.2
2.20 L (10.2) L (10 Onvieto
WY-SW175
H8731P
1/4.H0S 1280 x 728 1280 x 948 304s [1.1 MP] 304s [1.3 MP] 8LC 7es [Blectrical] P55 47Ftb - 122°F 12 V BC / P4E Yes Yes Yes 6.711/6.724 fes (3) [-1] Age Dynamic WRR Ra.

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BW (Same up) In Line)
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PREs multi stream
Smert Coulny
16.19
4.13
H.Zist 1-VHD (Intelligent VHD) (w/extension software) Range Range Speed Optical Zoom Digital Zoom VAID (Video Markon Serection) Monitor Cut Vançal Resistant Water and Oust Resistance Temperature 340 Pan-Filp Humber of Preset Positions Power Source
Debumidilization device
Other Functions
Mounting Options Cedec and Transmission Angular field of view Max. FPS GMax, Resolution

Auto Tracking

11 Aren in Abers hildbradel Asen billion der fer eath

SD memory Card

External I/D

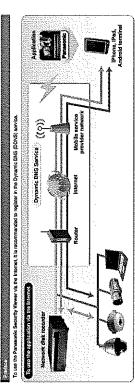
Ç

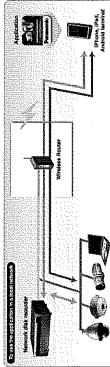
SOFTWARE and ACCESSORIES



Panasonic Security Viewer App WESSELLER

Penzaenic Security Viewer is an application that can view the images By connecting a terminal to a 36/45 or wireless LMI (WF-FI). it is possible in Penal Market Secured and the Market Secured in the Control inages stored on recorder. We service with VIP APPLANCIAPH-APPL





A PC is inquired to register a Dynamic DNS Sarvice and configure the eatings of the invier. • Download the Patrissonic Security Vlawer application on the Google Play ** store, Apple App Store.

Direct Camora connection Will receive the mentang the mentang Playand Playand

Network disk recorder



Re-modify pleptut inspector to morphope or tablet PC screen star fame and Time and date accept. To search the Images to play back based on the time and date Live (mage: Live images from the network cameras connected to the recorder Playing back recorded images: To play back the finages aloned on the recorder

Metwork camen Network camen control: (Resolution switchow; focus, ponyhing/filing, zoom, protect position awitchown; - Deponds on the network camen fundions.

Outline of the application	Application simme Penasonic Security Viewer version 2.1	Android" OS 4.0 is recommended.
Outline of the application	Application name	8

Application name Paramonic Security Viewer version 2.1	Android** OS 4.0 is recommended.	How to get the application Download from the Google Play ** store.	End of June	Operation chack terratrats Panasorals Toughpad FZ-A1, JT-B1,
Application name	8	Yow to get the application	Date to start the service . End of June	Debruion chack briminals

Galaxy S2, Galaxy S3, Galaxy S4

Download the application from here.
Audional http://security.penasonic.

IDS 5.1 or later	Download from the App Store.	End of June	Priorie4s, (Phono5, Phone5S, (Psd2,	Pod touch (5th)	n from here.
\$0	How to get the application	Cate to start the service	Operation check terminals		 Download the application from here.

Outline of the application
Application name:
Application name:
Application name:

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

Panasonic

Effective utilization of analog cameras

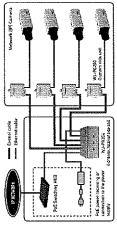
ENCODER	A CB H.ZA4 Video Encader	
 Analog canverse can be convected to the IP network surply by connecting them to the orcoder. Analog canverse and go canverse can be connected to the VM-205500. and done unalog canver can be connected to the VM-205100. And done unalog canver can be connected to the VM-205100. And consumed the James can be served to a recontent installed on the IP notwork in the scate way so reabods. Amendes. 	WJ-GXE500	
Basis System Comparison Example Andrea Cases Calendo Andrea Cases Calendo Probability Cale	Optional Accessory Et 61.25 in (18 inch The Para Backet WY-CD6/125 Islammating where WY-CRESCO	1,
Water Care to Particular Manager Care Care Care Care Care Care Care Ca	1 CN 81.264 Video Encoder WJ-GXE100	•

Effective utilization of cabling

COAXIAL LAN CONVERTER

The coaxial rabius of executing analog carrierss can be used for expanding the reach of the IP networt

Basic System Connection Example



*With Pos tunction: 500 m (1,640) feet 5 makes]/Without Pos function: 2 km (4,551 feet 8 inchts] Coerval LAN cabbas can be used: up to distances of \$ km. Power can also bu supplied to PoE camerus for distances of up to 500 m, PoE+ cemens: for distances of up to 300 m.

Coaxiet - UNI Convertor with Polit basction 4-channel receiver side unit WJ-PR204

SABEL AND ONIFIG

WJ-PC200



MEW Receiver side unit

Camera side unit

Optional Accessory

4	S S			•
1000		three or	zide umil	

HCATOA	meurung untee br ir Recelverside until

Metwork Videa Decoder

lideo Decoder	(
Multi Channel High Definition Video Decod	WJ-6XD400	(17 V DL, 1939 - 241 V AC adapter altucked)

- Up to 256 cameras, including cameras connected to the I-Pra Network

- Molt includes buggaring 1 (2007 ± 1.080 case) re-persered

- HOM includes buggaring 1 (2007 ± 1.080 case) rate

- HOM includes buggaring 1 (2007 ± 1.080 case) rate

- Stort Colf image for VCVS image rate of 6 VCVS images can be displayed in multiscreen mode

- Stort of VCS amment can be displayed at 26 thermedu.

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Cask Husel Brocket
WV-Q2/Q4/2S
Su no seney twy n' 5-571420]

WV-Q2D471S See Ionazong erk RI-Goldstoll EM 40,7% on [19 inch] Rack Mount Bracks

lotional Accessories

EMBEDDED RECORDING SOLUTIONS AND VMS

Panasonic

Network Disk Recorder

WJ-ND400







+ R.264,MPES-4 and 3PEG multi formst

Hard Plack Extension Unit W.J.-HDE400

Optional Accessory

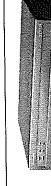
- Up to \$4 network cuments can be connected and recorded Wideo and Audio!
 Variouse recorded yelds. Autum. \$4 should enriching Sensi (Prof.)t, Enniquency synto secret (warks with 2-PEG connectes WH-VITStd)
 Up to \$5, H100 stars with 9 HD0 stats in the final unit and her WH-HDE&D0
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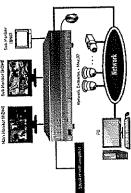
Network Disk Recorder

WJ-NV300

· H.264 and JPEG multi forms:



Easy Operation and Setup without PC



Pawer Saurce

Hard Dick Extension blok W.J.-HDEGOO

Optional Accessory

Additional Camera kit: WJ-NVE30

Lifetonal Business Intelligence NR NYTO is a license NC intended to improve the usefulness of Network Disk Rocardor W.J.-NYZOO / W.J.-NYZOO.

Administ Busines are lighter for WJ-NVF30



"New statistical processing functions such as "People counting" and "Fece matching / Age &

The number of desceled humin larer can be despised on a travisical chart separated by ope & grander for a smight day are specified into partial.

 Aga distribution groups are displayed by separate colors.

 The statistical data can be caved as a CSV like on a SDHC/SD memory cand or an a PC connected over a network.

CSV file. A Ne Pust tan be ected using a spreadfers: college author Merucules Office Erral 9

Server based recording and video management platform VIDEOINSIGHT v6

Scalable enterprise VMS solution that captures, manages and stores video surveillance across a network - on a single or multiple locations - and supports the broadest range of IP and analog camera models. Video Insight is the perfect solution for multi-facility configurations including schools, universities, hospitals, healthcare providers. law enforcement and SMBs.

NO LICENSE REQUIRED FOR SELECT PANASONIC CAMERAS

Unlimited Video Insight software license is available with the purchase of select Panasonic cameras manufactured after October 2014.

SURVEILLANCE FROM ANYWHERE

Monitor Station, Web Client and Mobile App share powerful features that allow you to access live and recorded video no matter where you are.

SUPPORT FOR 3,000 CAMERAS FROM 100+ MANUFACTURERS

WIDE ACCESS CONTROL INTEGRATION

Video Insight supports single and bi-directional integration of access control atarms from the leading vendors.

SUPPORT FOR OVER 130 ENCODERS

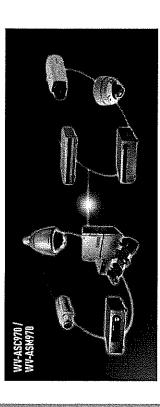
Integration to over 130 encoders so that our customers can affordably convert analog-to-IP and maximize the use of existing resources by turning their analog video system into a network video system.

MANAGEMENT SOFTWARE

Panasonic

H-BEG-H

WV-ASM200W with WV-ASE201W





IP MATRIX APPLIANCE

- Easy and smooth integration from analog to IP system
- * Up to 64 recorders, 1,024 monitors and 2,048 cameras (in case with encoder) can be Flexible system design: analog, iP and hybrid analog/IP
- Camera/sequence/monitor selection, camera control and recorder control can be made with the optional system controller VVV-CU950

WV-ASM970W

IP MATRIX CLIENT SOFTWARE

- Multimonitor option entables simultaneous use of operation screen and monitor screen (1 / 4 / 7 / 9 / 10 / 13 / 18 split) on a dedirected monitor; two-monitor operation is also available
 - Up to 30 ips/camera can be displayed in 16 split screens in MPEG-4.2 Mbps mode [depending on the camera, camera settip and PC performance]
- bp to 30 ips/camera can be displayed in 16 split screens in H.264 1.5 Mbps mode with VSA (depending on the camera, camera setup and PC performance)
 - Image resolution dynamically changes depending on the screen mode. V6A for quad screen, QVGA for 16 split screens, enabling optimum network usage (depending on the camera mode)
 - Decoder mode supported (WV-ASM97DW can be used as PC-based decoder instead of WJ-GXD480);
 - WV-ASE902W; Max, 16 screen x 4 monitor support

IP Matrix Clent Settwee WV-ASM970W

thernet System Controller with 10-Joystick and AnyShattle

SYSTEM COMPONENTS

WV-ASM200W

I-PRO MANAGEMENT SOFTWARE

 Supports 16:9 video stream and 16:9 HD monitor; displays 16:9 and 4:3 videos from IP cameras on the same screen B.264 recording data in the SD/SDHC memory card can be downloaded

■ Up to 16x 38 ips/camera images can be displayed in H.264 1.5 Haps mode

* Software License Products -WV-SAE108W: Face Detection XML -WV-SAE208W: NYAD Fisheye image correction/de-warp

- Convert file format from n3r [proprietary format] to MP4 and WMV
- Up to 100 recorders, 64 encoders and 256 directly connected cameras can
- Up to 6,400 cameras registered in the recorders and 256 cameras registered in the encoders are automatically registered in the WF-ASN/200W (the number of cameras depands on the recorder and encoder)

PMPU3000 CERTAINS

(System Controller WV-CU950 and monitor displays are optional.)

* WV-4SEZO3W: Increases number of reporter registration * WV-4SEZOFW: Image compensation (Fog/Snaw) * WV-4SEZOKW: Sopports WJ-6XDL00

WV-ASE201W: Three monitors, system controller [WV-CLP5G] support

EXTENSION SOFTWARE

WV-ASE202W: Max. 64 screen support

WV-ASE201W / ASE202W / ASE203W / ASE204W / ASE205W / ASE231W

Supported recorders: WJ-ND400 series, WJ-ND300 series, WJ-ND200 series, WJ-NV200 series, WJ-HD300 series, WJ-RT416 series, WJ-HD616/716 series

- Redundant function supported fredundant function can consist of two WV-ASCY7B servers as main server and standby server;
- Up to 64 ND400 reconders can be registered as standby recorder for backup purpose
 of serious problems on main recorders

FACEPRO - WV-ASF900W

FACIAL RECOGNITION ANALYTICS PLATFORM RUNNING IN THE VIDEO SURVEILLANCE SYSTEM FACIAL RECOGNITION ANALYTICS PLATFORM 🛅

* 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

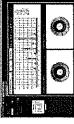
FACE MATCHING

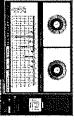
- When faces are matched with registered people, alarm of face matching is output in real time, and an alarm history is displayed in the list
- Doubte clicking on facial alarm notification can play back video segment on the confrol monitor



PEOPLE COUNTING, AGE And gender statistics

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





MA (SETTLANDER) CONTRACTOR INTERNATIVE (steppingsperiod) Plan (dis Solve en integer steppin Entrementalise FACEPRO* SYSTEM COMPONENTS

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Panasonic

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Арражанка			X	
		WV-CW594A	mmenter.	WW-CS584
Schsor		1/4 type interline transler CCD		1/4 type Intelline transfer CEO
Resolution	Horizotal	650 TV Lines		650 TV Lines
Supor Dynamic / WBR / BLC		Syper-8		Super-B
Day/Kight		Yes (ICR)		Yes (ICR)
Focus Adjustment		Auto Facus		Auto Focus
Beitt-in AFLEB		1		1
	Color	시 53		X(5)
	Cotor (Sens up)	19717 B		£416 k
Min, Jilumphion	B/W	2.54		N. 95.0
	B/W (Sens up)	#1 CL00.0		AL E100.0
lens		(= 3,3 to 119 mm, F1.4		t-3,3 to 119 mm, F1.4
Angular field of view		H. 1,7" [Tote] to 68,2" [Wide] V: 1,3" [Tote] to 46,0" [Wide]		H. 1,7° (Telo) to 60.2° (Wato) V: 1,3° (Talo) to 46.3° (Wide)
	Pan	360° endless		360° entities
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VAID (Valeo Motion Detection)	Avantamentamentalismostalismos	Yes	namenamenthamidani international international	transmeteriorisminesteriorisminesteriorisminesteriorisminesteriorisminesteriorisminesteriorisminesteriorismines Texto
F-VAID [late/ligest VAID]		Scene Change		Scene Change
Camera little (DSD)	trian of this and and and ordered and and and and and and and and and an	ACS	and an ordered transport or management to	
External I/B	shederled (disciplinates)	4 inputs (ALARM IN 1 - ALARM IN 4) 2 entputs (ALARM / AUXT, 874 / AUX2)	nurlahahanarlarintakantahahahahah	4 inputs (ALARM IN 1 - ALARM IN 4) Zoutpets (ALARM / ALIT), (BW / AUX?)
Yandal Resistant		1		_
Water and Dust Resistance		1966		
Dehumidilication device		_		
lemperature		-58°F to +122ºF		+14*F to +122°F
Parter Startes	***************************************	JY A YC		24 V.C.
Other Functions		W-CW594A : Rain wash coating		
THE STREET CONTRACTOR OF THE STREET CONTRACTOR	Smake Berne Crear		Snoke Dome Cover WV-CS4SA	
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		Wat Rount Bracket Wr-0122A	Culling Moun Brackol WV-0195A	Brackei
			Embedded Celling Hount Bracker WV-0126A	
Opthors	Brackel	Caling Neurt Bracket WA-01210	Pendant Maint Bracket WY-2117A	ţ.)
			Wall Mount Bracket Wa-Gista	DEEL CONTROL OF THE PROPERTY O
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signification of the second				
Appearance		REV.		
		WV-CW6345, WV-CW634F	WV-CF624	76943-AM
Sensor		1/3 type interline transfer CCD	1/3 type interline transfer CCD	1/3 type
Resolution	Maritantal	700 TV lines or more	. 658 TV thes	450 TV Unes
Super Oynamic / WBR / BLC		Super-II	Super-D	Super-D
Day/Night		Yes (ICR)	Yes (ICR)	Yes (ICR)
Focus Adjustment		ABF	Manual	ÀBF
Built-in (B LED		1	1	-
3	Color	A 80'0	xi 80.0	A 80.1
	Color (Sens up)	6.0024 ix	1,0075 tx	0.0025 ta
Min. Illumination	3.W	0.00e lx	1.00B LX	1 BOO 1
	BfW (Sens up)	0.00024 tx	% C000,0	10.0003 tr
Lens		1= 3.8 to 8.4 mm, Fl.4	(# 2,0 to 10 mm, F1.4	[5.2] [1.4]
Angular (leid of view		H: 33.6" [1941] to 74.9" (Wide) V: 25.2" [1960] to 55.7" (Wide)	H: 77.4° (Tete) to 180.4° (Vilub) V: 20.7° (Tete) to 73.3° (Wild)	(a) H. 27.6° (Tela) to 100.8° (Wide) di V. 20.7° (Tela) to 73.8° (Wide)
Harmon and the second s	Pan	#41#	180*10-170*	180° to -170°
	T. T.	was a superior to the superior of the superior	146-4-144-1444-1444-1444-1444-1444-1444	-067
Adjusting Angle	Optical Zoom	2.1x	3.64	3.4x
	Digital Zoom	82	я	1
YMD (Video Malion Detacition)		35,	Yes	Fee
i-VMO (Intelligent VHO)		Scene Change	Scene Change	Scene Change
Camera title (DSg)		\$53,	ŭ	145
External 1/10		***	*	1
Yantat Resissant		IEC 40058-2-75 test Eh, 50J	1	-
Water and Dust Resistance		P66	1	1
Dehumisfification device		1	-	
Temperature		+14°F to +140°F -30°C to 60°C (With opilanal heater)	+14°F t0 +122°F	+14°F to +122°F
Power Source		22 V AC or 12 V BC	24 V AC or 12 V BC	24 V AC or 12 V OC
Other Functions		_	-	
	Smake Dome Cover	Strake Done Dreet We-CW45A	l	1
		Mant Braket for WY-CPRS4F) WY-B115A	Embeddad Cuiting Hount Bracket (Sod white) WP-01748	Emboderd Gelling Nauri Brekert (Sali white) W4-0.1748
Options	Brackel	Embedsed Calling Mount Bracket Wi-G169A	(0	Course of the co
	Raater Dali	Heater Lieit WV-CNSHA	ı	į
		10 77 mm ox 6	Dan some (£ 27	Can manus (A. 27
Maurting Options	the property of	See pages 46, 47	ry 'or sand ago	/+ ">+ case bases

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épiearance			SK C		N N N N N N N N N N N N N N N N N N N
		WV-CF344	WV-CF354	WV-CF374L	WV-CW314L
Sensor		1/3 type intentine transfer CCD	1/3 type intertire transfer CCB	1/3 type interthe transfer CCD	1/3 typn interline transfer CCB
Resolution	Hartzental	650 TV lines	650 TV lines	630 IV Lines	55g Wilnes
Super Dynamic / WOR / BLC		BIC	378	316	ac
Day/Kight		Yes (Electrical)	Yes (Electrical)	Yes (ICR)	Yes (ICR)
Focus Adjustment	Section Section Section	Focus Assist	ABÉ	過	48F
Beilt-in IR LED		1	1	Yes [28 m]	Yes (50 m)
	Colur	£608 lz	N BOU	り無い	A SUS
Min Mumphatina	Color (Sens up)	0.0025 tr	8.0025 lx	8.0075 tx	D.0025 Lt
	Bhr	0.05 tr	0.05 lx	D Lx (w/th iR 1.£0)	Blx (with IR LED)
	B/W (Sensup)	8,80764,9	8,663% lx	1	ı
Lens		£2.8 to 10 mm, F1.4	f= 2,8 to 10 cm, F1.4	in 2.8 to 10 mm, F1.3	1= 2.8 to 10 mm, F1.3
Angutar tleld of view		N: 27,5° (Tele) to 180,3° (Wide) Y: 20,7° (Tele) to 73.5° (Wide)	H: Z7,8° (Teta) to 100,3º (Wide) V: 20,9º (Teta) to 73,4º (Wide)	B; 27,65° [Tole) to 100,6° [Wide] V: 20,75° [Tete] to 73,85° [Wide]	H: 27,45° [Tele] to 100,8° (Wide) V: 20,75° [Tele] to 73,85° [Wide]
	Pan	180° to -170°	160° to -170°	180° to -170°	_
	五	*16*	₽ 84	B ta 75*	***
rajustanj Angue	Optical Zoom	3.64	3.6x	3,54	3,64
	Digital Zoom	ц	ង	Zi,	ĸ
VMD (Video Motion Detection)		ğ	Yes	řes	¥3
i-VMO (Intelligent VMD)		Scene Change	Scene Change	Scena Change	Scene Change
Сатега 17{1в (050)		žež.	Yes	Yes	Tes
External 1/0		-	-		-
Vandal Resistant		ţ	*	ı	ł
Water and Dust Resixtance		1	1	-	P66
Dehumblitication device	Carried Street	1	1	ı	1
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Power Squrce		24 V AC OT 12 V DC	24 V AC or 12 V DC	24 V AC er 12 V DC	24 V AC or 12 V DC
Other Functions		1	1	1	1
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	Heater Chall	ŧ	ı	ı	ı
Maunting Optlans		Ste pages 46, 47	See pages 46, 47	See pages 46, 47	See page 51
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Арреятансе			6	5	ð
		WV-CP630/WV-CP634	WV-CP628/WV-CP624	WV-CP300/WV-CP304	WV-CP310/WV-CP314
Sensor	1	1/3 type interline transfer CCB	1/3 typo interline transfer CCD	1/3 type interline mansfer CCD	1/3 type interline transfer CCD
Resolution	Hentoothi	780 IV tines	650 IV lines	ASI IV tines	CSU PY UNITED
Super Dynamic / WBR / BLC		C-sque-D	ญ-เลช่าสูร	ä	38
DayMight		# (CS)	Yes (ECR)	Yes (Electrical)	Yes (ICR)
Focus Adjustment		485	Face Assist	Focu Asset	निया विडन्त
Buit-in in LEO		1	-	-	,
	Cotor	A 80'0	48U\$	对部章	1,00 lx
	Color (Sens up)	0.003 tr	0,0025 b	A 2000.0	4,0025 tr
MIR. Humanatan	B/W	0,008 tr	0.008 tx	8,05 kx	0.008 Lx
	B/W (Sens up)	D.BOD3 Lx	x) 52000'0	AJ 9100'0	0,59025 kr
Lars		aplional	lavojida	optional	aptional
Angular field of view		1	-	*	ı
	Pas	**	-	**	1
Adjusting finds	超	-	ŧ	l	1
affect forces	Optical Zeem	-	-	-	_
	Digital Zoom	#Z	T.	ĸ	A
VMD (Video Motion Detection)		超	, jes	Ťas	នា
FWAD Batedigent VAD		Scene Change	Scene Change	Scene Change	Scone Change
Camera Hite (BSD)		ख्य	Yes	ca,	2)
External I/O		ALARN IN : 1 (OFF / ALARH / VHD PERMIT (BV) ALARM OUT : 1 (OFF / ALARM / BW)	Asoma 141 p.c., Abarm OVT 1 p.c	ſ	ş
Vandal Resistant		1	-	ì	1
Water and Dust Resistance		-	-	ı	1
Dehamidileztion devica		-	***	1	1
Temporaturo		+1.8% to +122°F	+14°F to +122°F	+14°F to +122°F	+14°Fts +122°F
Power Source		WV-CP536: 120 V AC WV-CP534: 12 V DC of 24 V AC	WA-CP620; 128 V AC WA-CP624: 12 V BC or 24 V AC	WY-CP304; 120 V AC WY-CP304; 12 V DC-er 34 V AC	WW-CP310: 120 Y AC WW-CP314: 12 Y DC or 24 Y AC
Other Functions		1	-	1	-
	Smike Dathe Corer	ſ	ţ	I	j
Options	Bracket	l	I	77	1
	Heater Unit	ı	ı	ı	1
Mountling Options		See page 51	See page 51	Ser page 51	See page 51

SYSTEM CONTINOLLERS

Detricates responses







WJ-HD716 (120V AC: NTSC)

16 CH REAL-TIME H.264 DIGITAL DISK RECORDER

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

- Beat-Hing Food (1920) v 1000 display
 B. 12.54 high-profile) codec reduces bandwidth
 Dy monitors real-time live
 Dy no with, compared with 1976-1.
 Style bek (Super Opmanic 2 Lind with Intelligent—
 Style bek (Super Opmanic 2 Lind with Intelligent—
 Style bek (Super Opmanic 2 Lind with Intelligent—
 Widea Horizon (14-WID) alarm.

WV-CU950

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

- For smooth operation of Ethernet/PS data interrete chorse, WA-ASCYDT, and System-SIGIE/System-GER/System-GER/System-GER/System-GER/System-GER/System-GER/System-GER/System-GER/System-GER/System-GER/System-GER/System-GER/System-GER/System-GER/System-Control: camera, recorder and system-control: camera, recorder and system-control: camera, recorder

User-level management and user-assignable buttons User-assignable buttons Iniversal design for right- or left-handed users

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

- w For smooth operation of PS data interfaced riexises and System 62U.System 150 (VI).SSTRIAN version 2.0 or highter!

 I Interface of system control: camera, recorder and switcher
- User-levet management and user-assignable buttons
 Universal design for right- or telt-handed users



115 Hzb Canister/3000

418 H00 Canistor/4006

ETB HRIB Canister/6800

Neré Disk Extercion Mid WJ-HOE400

HAID Blood WJ-HIDDGBIA Brill-in IND Drive WJ-HIDBGIIA

PUE PLUS Bellocher REEE BUZ, SAVIÈEE ROZ, Jud PPOTERBIJOS Supports Bellocher and carleior PLE conserps

OPTICHAL ACCESSORIES



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CAMENA ACTIONS	141		
MODEL	DESCRIPTION/TYPE	COMPATIBILITY	IMAGE
WV-CF5SA	Smake Dome	WV-SEN6311/611L, WW-SEN310A/311A, WV-SEN531	()
WV-C545	Smoke Dome	W-C5584	0
WV-CS5C	Стея Воте	WV-SC588A, WY-SC387A	
WV-CS5S	Smoke Dome	WV-SCS88A, WV-SC387A	B
WV-CR15	Smake Dome	WV-SFR631L/611L, WM-SFR310A/311A, VAV-SFR531	())
MV-cwec	Clear Dome	WY-NW502S, WY-CW504S, WY-CW364S/334S	(1)
WV-CW45A	Smoke Dome	WV-NV502S, WV-CW634S, WV-CV7344S/7334S	
WVCW7S	Smoke Dome	WV-SFV631,/63117/6111, WV-SFV310A/311A, WV-SFV531	()
WV-CW65A	Smake Dome	WV-SW168/155/155MA/152/152M, WV-SF138/135/132	Þ
WV-07118	Extended Shade Cover	WV-SFV631L/631L/631L/ WV-SW3XX, WV-SW5XX, WV-SFV310/311, WV-SFV531	Đ
WV-CW5HA	Optional Healer	W-cw635/W-cy8645/3345	

					2.51			
	13 (A)				CAMERA TYPE	A TYPE		
			100	OUTDOOR VANDAL	A		INDOOR DOME	
		-						
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WP-SPADRESTATION, WP-SPATIEA, SEGA, WV-SPASS	WY-SHASE, WV-SHASE,	WPC181625/HGIF WPC181625/HGIF	Whstyrail	Wyseralise. Wyseratise. Wyserataie Wyserataie Wyserataie	MY-CFOR SERIES MY-CFOR SERIES
WV-0169A		Indoor Embedded Ceiling Mount Bracket	žš.		žī			
WV-Q174B	(C)	Indoor Embedded Ceiling Mount Bracket					sa),	Yes (Except WV-CF314L)
PRCM1	(1)	Indoor Embedded Ceiting Mount Bracket	Yes		Yes		Yes	Yes
PPMS1	İ	Indoor Indoor Pendant Maunt Housing, Black					Yes (Except WW-SFR631L/611L)	Yes
PPMS1B	*()	Indoor Indoor Pendant Mount Housing, Beige					Yes Except WV-SFR631L/611L)	Yes
5787Sd		Outdoor Vandal-resistant Shroud	Yes	Yes	Yes			
5787Mdd		Outdoor Vandal-resistant Pole Mount	Yes	řes	Yes			
PCM484S	S	Outdoor Vandal-resistant Corner Mount	Yes	ž	Yes			
PHM4845)	Outdoor Vandal-resistant Hanging Mount	Yes	Yes	Ŕ			
PWM4845		Outdoor Vandal-resistant Wall Mount	ž	Yes	鴽			
WV-07118	Ø	Oatdoor Extended Sun Shade	Yes		Œ			
WV-0124		Outdoor Shroud Bracket requires WV-0122A	Yes	Yes	श्र			
PWM781	4	Outdoor Wall Mount & Shroud				Yes		

		THE STATE OF THE S		CAMERA TYPE	
			a destinativa de destinación de la companya de la c	71d	The second secon
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-SC588A/WV-SC387A	WV-5C384/WV-SC385	WV-CS584
WV-0117	} /•••()	Indoor/Pendant Supended Ceiting Mount		en aan oon of of displatement annota displatement	Yes
WV-0118B	6	Indoor/Wall Wall Mount Bracket, Silver		maje je jeleje je koma u zamana prijezijski distakti Paman	Yes
WV-0119	()	Indoor/Wall Wall Mount Bracket, White	Yes	нам подору Недавиливани папого и свой намаг	man an ang di Pilipinan an ang di Angaran ang
WV-0126 WV-0126A	(G)	Indoor/Ceiling Embetded Ceiling Mount Bracket	Yes (WW-0126A)	dishtromen menent veldyb blytromen mened ob	Yes
WV-0154C	8	Indoor/Wall Wall Mount Bracket Clear Dome		Yes	
WV-01545	8	Indou/Wall Wall Mount Brackel— Smoke Dome		59 2	
WV-Q155C		Indoor/Celling Embedded Ceiling Hount Bracket—Clear Dome		žš	
WV-Q155S		Indoor/Ceiting Embedded Ceiling Mount Bracket—Smake Dome		Yes	
WV-0156C	(D)	indoor/Ceiling Ceiling Mount Bracket— Clear Dome		sa ₂	
WV-01565	(1)	IndoorfCeiling Ceiling Mount Bracket— Smoke Dome		şə _k	
WV-0157	8	Joner Doms Cover		Çes	
PISM5V		Indou/Pendant/Clear 5" Indoo Vandalresistent Housing		Yes	
PIDV7CN	(ê	Indoor/Ceiling/Vandal 7' Indoor Recessed Ceiling	Yes	<u>'%</u>	'য়

AIIISIIOI	ANTO ADDITION	III\(e\B\ta\a\a\a\a\a\a\a\a\a\a\a\a\a\a\a\a\a\	STANDON STR	NEAND MOUNTING BRACKETS FOR INDOOR PT/ CAMERAS (CONT.)	
				CAMERA TYPE	
				Z .d	Anna and Anna and Anna and Anna and Anna and Anna and Anna and Anna and Anna and Anna and Anna and Anna and An
Telegraphic and the second sec					(I)
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-5C588A/WV-5C387A	WV-SC364/WV-SC385	78953-AM
PIDV75N	(9	indoor/Ceiting/Vandal 7" Indoor Recessed Ceiting Housing with Smake Dome	Y.	Yes	Yes
PDM9		indoor/Ceiling 9" indoor Recessed Ceiling Housing (Dame not included)		annen normát (blasen mann reside) de mente rendele	Yes
PID9		Intoor/Celling 9" Indoor Recessed Celling Housing (Dome not included)	, Yes	\$65	Yes
POSM5V		Outdoor/Celling – 5" Outdoor Vandebresistant Housing 24V AC to 12V DC Cenverter		¥95	Annual manyari () (state annual red abbate annua
PODV9CPTA	()	OutdoorPeedan! - 9" Outdoor Vandalresistent Denis Housin; with Pendan! Kount - Clear/HEB	Yes	83/	Yes
PODV9CWTA	C	Outdoor/Wail ~ P" Outdoor Vandalresistant Dome Housing with Wall Maunt — Clear/M&B	ž	řes	Yes
P0D9CA	()	Outdeer/Pendant - 9" Outdoor Deane Housing with Pendant Mount, Silver - Clear/HSB	3	Yes	Yes
POD9CWA	6	Outdoor/Wall – 9" Outdoor Dome Housing with Wall Hourt, Silver – Clear/Hi&B	Yes.	řes	ध्य
P0D9CTA	•	Duntaor/Pensan - 9" Outdoor Done Housing with Pensan Mount, White - Clear/H&B	Yes	Yes	Yes
P0D9CWTA	C)	Outdoor/Wall - 9" Cottoor Dome Housing with Wall Hount, White - Clear/HSB	Yes	řes	Yes
PPFD9C	(1)	Outdoor/Pendant – 9" Outdoor Prescurized Done Hausing for Analog Camera – Clear/H&B			say
PPFD9CN	4]	Outdoor/Pendant - 9" Outdoor Pressuitzed Dome Housing for Network Canera Clear/H&B	Yes	短	

			CAMERA TYPE	CAMERA TYPE	
				714	
				- (j)	· (P)
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-SW59BA/ WV-SW397B	WV-SW395A	WV-CW594A
PPRM386	<u>_</u>	Outdoor Parapet Mount Short, Black	sa),	Yes	Yes
PPRM30GB	<u></u>	Outdoor Parapet Mount Short, Beige	Yes	Yes	Yes
PWM366		Outdoor Parapet Mount Long, Black	Yes	Yes	Şeş
PWM30GB	Ľ.,,	Dutdoor Parapet Mount Long, Beige	Yes	Yes	Yes
PWM20G	ح	Outdoor Geoseneck Wall Mount, Black	Yes	Yes	Yes
PWM20GB	۷,	Outdoor Gooseneck Wall Mount, Beige	Yes	Yes	Yes
PWH2865	C	Outdoor Gooseneck Wall Mount, Silver	, Yes	say	Yes
PSRCW2000B		Outdoor Parapet Rooffop Mount, Black	Yes	są,	Yes
WV-0122A	Zª	Outdoor Wall Mount Bracket	səx	Yes	Yes
WV-0121	^	Outdoor Ceiling Mount Bracket	Yes	Yes	Yes

HOUSING		HOUSING AND MOUNTING BRACKETS FOR OUTBOOK PIT CANTERAS (CONT.			AS (CONT.)	
				CAMERA TYPE	A TYPE	
				714	_	And the second s
			-(h)		O	
KODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-SW598A/ WV-SW397B	WY-SW395A	WV-CW594A	WV-5UD638
PB24B	(=')	Outdoor Reary Duty Junction Box	Compatible with PWM200 series, PWM638	Compatible with PWM206 senes, PWM638	Compatible with PWM205 series, PWM638	Compatible with PVM/210 series, PVM/638
PACA4 PACA4B	7	Dutdoor Comer Nount Adaptor PACA4-Black, PACA4B-Beige	Competible with PWM206 series, WA-0172A, WY-SPWxxx series, PWH638	Compatible with PWH206 series, WP-0122A, PM-SPWacx series, PWM308	Compatible with PWM206 Series, WY-STYGOS Series, PWH638	Compatible with PYIM206 series, PIV-01724, WV-SPWcx series, PWIM538
PAPM4 PAPM4B	and the state of t	Outdoor Pole Mount Adaptor PAPN4-Black, PAPN4B-Beige	Compatible with PWA205 series, WV-0172A, WV-SPWxxx series, PVM-638	Compatible with PPIM206 suries, WV-0122A, WV-SPVixox series, PWMG8	Compatible with PHM206 series, WY-0122A, WY-SPVI.co series, PYH638	Eompatible with PVH/206 series, VV-01224, WV-SPWxx series, PWH638
PAPM6		Quitidoor Wall/Pole Mount Adaptor	Compatible with PWMZ16 series, PWM538	Compatible with PVM206 series, PVM638	Compatible with PWM206 series, PWM438	Compatible with PWMS16 series. PWMS38
PPMF12D	F	Outdoor Pendant Mount	Yes	Yes	Yes	No
8СЭММЬ	A	Outdoor Wall Mount Bracket	No	Ŷ.	8	ă

		CANE		CAMERA TYPE		
				FIXED		
				4		
MODEL NO.	PICTURE	DESCRIPTION/TYPE	WV-SPV7811 WV-SPW6111/SPW61/ WV-SPW6111/SPW611 WV-SPW371A1/531A1	WV-SPH310A/311A WY-SPH531 WW-SPH631/611	20/90ks-84	WV-CP400, SERIES WV-CP400, CP200, SERIES
WV-0128A		Outdoor Adapter Box	included (Except WY-SP- W311AL/531AL)			
PUM8		indoor/Wall Universal Comera Mount (Max. Weight 3 Ubs.)		Yes	સ્ત્રે	Yes
PODSCF	* ()	Outdoor/Pendant 8" Outdoor Dome Housing for Fixel Camera with Pendant Mount – Clear/H&B		Yes	səli	Yes
PODSCWF	7	Outdoor/Wall 9" Outdoor Dome Housing for Fixed Camera with Wall Mount — Clear/H&B		Yes	Yes	Yes
POH1100	Z	Outdoor/Wall 10" Outdoor Nousing Wall Mount Included				Yes
POH1100HB	3	Outdoor/Wall 10" Butdoor Housing with Heater and Blowers Wall Mount Included – H&B				Yos
POHT100NWME	J	Outdoor/Wall III" Buldoor Housing with Heater and Blowers with PoE Yus Hall Hount Includes — H&B		są,	ks.	
POH1100NWW	3	Outboar/Mold — 10" Outboar Housig with Heater and Blowers with Poe Plus with Midspan Walt Mount Included — 1528		अ	Yes	
PACA4 PACA4B	3	Outdoor Pole Mount Adaptor PAPM4-Black, PAPM58-Beige	, Kes			
РАРИ <i>с</i> Рарисв		Outdoor Pole Mount Adaptor PAPH4-Black, PAPM4B-Beige	Se),			
<i>NEW</i> Pehylood		Indoorfcomer Elevator Biansing Brushess Steel/Temperat Glass Vandal				
<i>New</i> Pehy1000sfn130	(•)	IndoorConner Elevator Housing Brushless Steek Temperen Glass Vandal Includes VA-STAT30 camera				

						I	1		
	4	WV-SPH3fi/311 WV-SPN531	şə <u>k</u>	Yes	Yes	Yes	saj	Yes	Yes
		WV-SPN631/611 SP509/SP508	aĭ	Yes	SSJ,	Yes	2	Yes	SQ ,
		AUTO IRIS	že.	Yes	Yes	38	35	2 <u>8</u>	şş
		APERTURE Ratio © Wide	F13	F1.2	F1.2	F-7	F1.4	7.14	ᄄ
313		FOCAL Length (MM)	22-60	2.46.0	2.8-8.0	2,8~12.0	7.0-22.8	5.0~50.0	15.0-50.0
		COMPANY	Fujinon	Tamron	โนผู้กดน	Fujinon	Ricon	Tabilon	Fujiran
		PICTURE	S			8		6	ę,
File of Laye		MODEL NO.	PLAMP2206	PLAMP2406	PLAMP2808	PLAMP2812	PLAMP0722	PLAMP0550	PLZ15/33
EW.		2ZIS	1/3"	1/3.	1/3	13.	12	-5	\$

S.			14.5							
MA			ounment victoria						(6)	
SIE	MODEL NO.	PICTORE	COMPANY	FOCAL LENGTH (MM)	APERTURE RATIO © WIDE	AUTO IRES	WV-SW158/ SF138	WV-SW155/ SF135	WV-SFKT10/ SFNT30, WV-SFVT10/ SFVT30	WV-SW115
1/3"	PLM12MP028/1		Évetar	2.8	F2.0	No No	žę,	řš	Included	şş.
13	PLM12MP060/1		Evetar	979	8.6	ž	剤	Yes	Yes	Şe.
1/3	PLM12MP120/1		Evetar	12.0	8 <u>.</u> E	Æ	žšį	ä	Yes	sə)
	PLM12MP019/1		Sunty	1.95	F2.2	S.	Included	Included	Yes	Included

	WV-CP-500 SERIES WV-CP-500 SERIES WV-CP-500 SERIES		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	WV-CW634 SERIES	And the state of t			řes		Yes		Yes	
	AUTGIRIS	क्ष	æ	Yes	Yes	萢	প্র	žī	, les	Yes
	APERTURE Ratio © Wide	F1,8	F1,4	F1.6	F1.2	FL3	70,95	FI.6	FI,5	F1.6
4	FOCAL LENGTH (MM)	7.0-70.0	3.8~8.0	5.0-40.0	77	27~13.5	2,9-8,0	5.0-50.0	15.0-50.0	20.0-100.0
	COMPANY	Fujinon	Panasonic	Panasonic	Тэтгоп	Fujinon	Fujinon	Fujinon	Fajinon	Tamron
8 11 3	PICTURE	8	6	o),	P	8	(3)	2	ø,	•
While is the self mariem	MODEL NO.	PLAH51770	WY-LZA61/25	WV-LZ62/85	PLA22T3DN	PLZ27/5DN	PLZ29/27	PLZ5/10	PLZ15/33	PLZ20/5
	11/2	1/2	1/3-	1/3"	1/3.	Ş	13.	1/3"	1/3-	1/3"

	ERA VILLENS	era Lens	Factory 5.8-8mm	PLAMP0772 7-22mm	71.15/33 76.34F 15-50mm	7634F Р.1.4MP2206 72.6mm	Factory 3.8-Bmm	P1.24mm 7-22mm	W4-CW6345 15-50mm	PLAMP2286 WV-CW634 22-6mm
hsadietoego pagkages	CAMERA	Сапета	WY-CW634F W-CW634F	WV-CW63KF/09 WH-CW63KF	WY-CW634F/15	WY-CW634F/22 W-CW634F	WY-CW6345 WH-CW6345	WY-CW6345/09 WV-CW6345	(5/15	WV-CW6345/22 (***********************************

LENS HOUSING	Lens Housing	PLAMP2812 2.8-12.mm	PLZS5/10 5.0-50mm	PUAMP2812 2.8-12mm	PLES/16 5,0-50mm	PLAMP2012 2.8-12mm	10d	PLANPISSO POH1009HB 5.0-50mm	Р\AMP2456 РОН1000HB 24-6.0mm
CAMERA	Сатега	WV-CP314	WV-CP314	WY-CP634	WV-CP634	W-SPR311A	WV-SPN311A	W-SPN531	W-SPN531
		P0C314L2	P0C314L5	P0C634L2	POC634L5	POCSPN311L2	POCSPN311L5	POCSPNS31LMP05	POCSPN531LMP24

MODEL	TYPE	INFO	IMAGE	DESCRIPTION	COMPATIBLE WATH
PLCB9C	Monitors	LEO Manítors	(\$2)	9" LCD monitor, 880 x 688	
PLCD9C/2	Monitors	LCD Monitors	Ę.	29" LCD monitor, 800 x 600 with rack mount	
PLCD15V	Koniters	LCD Monitors		15" LCD membr, 1874 x 788, 4:3 aspect ratio, two bulle-in speakers, 2x BNG input. S-Video in/output, RGB input	- Action and Action an
PLCD19P	Monitors	LCD Manitors		19" LCD, 1780 v 1024, 5.4 aspect ratio, two built-in speakers, 2x BMC input, S-Video infontput, ROB input, DVI input, HIPMI input	
РССО24НВА	Moniters	LCD Manitors		24" Full HD LCG, 192D x 1090, 14.9 aspect ratio, two boilt-in speakers, 2x BMC input, S-Video infoutput, RBB input, BVI input, HDMI input	
РСС027НDA	Monitors	LCO Monitors		27" Full HD LED, 1920 x 1080, 16:3 Aspect Ratio, two built-in speakers, 2x BMC input, S-Video infoutput, DMI input	
PLCD42HDA	Menitors	LCO Menitors		42" Full HD LED, 1970 x 10AD, 16-9 aspect ratio, two built-in speakers, 2x BMC input, 5-Video infoutput, DVI input, HDMI tiput, pedessot stand	
PRMKOB	Monitors	Accessaries	Image Not Available	Rack mount kil for PLCD15V, PLCD20P monitors	PLCD15V PLCD19P

WW-A

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1 to 18 LED W.Windess M. N.) Z Connector Mariel Crada NEW NETWORK CAMERA MODEL NUMBER FORMAT Fern Factor 2 S ≥

VIDEO INSIGHT LICENSE BUNDLED WITH PANASONIC CAMERAS MANUFACTURED AFTER OCTOBER 2014	MERAS MANUFACTURED AFTER OCTOBER 2014
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ELIGIBLE PANASONIC CAMERAS	
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Outdoor Vandal Floed Donne Sprinsis, Sprinsis Stratis, Sprinsis Sprinsis	Filemora Such Switzly, State, Smith State Beathert, Beatha Barting, Spatia Beath
NIPOTAL SYLER SHAPIN SYRES, SYMEN, SYNEN, SHATONY SIRY GRAM, SYLERY FIZH SZYLES, SYNTOLIN, SHATONY	Encoder. System (system)
IndoorVandal Pred Dome spiestle skinstel spiestles spiestlester, spiestlester spies spies	Now to tell if your Panasonic camera was manufactured after October 2014.
Undoor Fixed Dome	This is the series number of your edited a bish carbon blue.
STAD 3 TO THE STAD STAD STAD STAD STAD STAD STAD STAD	d production, where #=2014, N=2016, C=2015
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WJ-PR284/WJ-PR201/WJ-PC268 Coaxial-LAN Converter with POE Function35
BY-HCA10 Rack Mount Coanscring Fitting
CA control of the Paris Carlo
78.
F.A. Panakonif Seririty Viewer, App Version 2.1
PKIPU3000 IP Matrix Appliance38
ē.
PPMS1 Indoar Pendant Mount Housing, Black
PPMS18 Indoor Pendant Mount Housing, Beige
86
PRCM1 Embedded Calling Mount Bracket
Má
PPDEPDIBUT POE injector
PWM206 Gooseneck Walt Mount, Black
PWMZDGB Gooseneck Wall Mount, Beige
PWM/2055 Gooseneak Wall Mount, Silver
ſΜ
WJ-6KD400 Multichannel High-definition Video Decoder35
WJ-GXE180 1 CH H.264 Video Encoder35
W1-GXE500 4 CH H.264 Video Encoder35
WJ-HD616 16 CH H.264 Dighal Disk Recorder
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WJ.HOBGOT RAID Board (WJ.HOG16/HO716)
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WJ-HDE480 Hard Disk Extension Unit
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BY-HDA1D Rack Mount Connecting Fitting35	WW-ASE281W/ASE202W/ASE203W/ASE204W Extension Software39
	WV-ASF900W Series Facial Recognition Analytics Platform39
Ž.	WAY-ASIAZBOW I-PRO Management Software
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	WV-C
	WV-CF314L Indoor IR LED Day/Night Fixed Dome Camera
Panasonic Security Viewer App Version 2.1	WW-CF344/CF354 Indoor Day/Night Fixed Dome Camera42
조금	WW-CF5SA Smake Dome Cover46
PAPU3000 IP Matrix Appliance38	VW-CF624/CF634 indoor Super Dynamic & Day/Night Fixed Dome Camera41
;	WA-CP309/CP304/CP319/CP314 Day/Night Camera43
	WV-CP620/CP624 Super Dynamic 6 Day/Night Fixed Camera43
PPKST Indoor Pendant Mount Housing, Black. PPKST B Indoor Pendant Mount Housing, Beite	WW-CP-630/CP-634 Super Bynamic 6 Day/Night Comere with ABS (Adaptive Black Stretch).
	WV-CR1S Smoke Dome Cover
No.	
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For more information, visit: us, panasonic, com/products-vidensurveillance-videolosight

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Panasonic

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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
- Oystoni acoign
- 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

Panasonic

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

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

Enterprise Functionality

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

Security:

- · Video Tampering & Validation built within the Software.
- · Privacy Zones for sensitive areas for any camera in layout.
- · SSL certification needed to secure web client transmissions
- Multi-level security including restriction of setup, management, live and recorded viewing, PTZ operation, access to layouts, facility

- maps, rules and clip creation.
- · Enterprise-wide user management tool for local users.
- Authenticate users with a Video Insight user database or with integration of users and groups imported from Active Directory, & LDAP, Assign individual camera permissions to users or groups.
- · Comprehensive log of all changes to system
- · Option to restrict users from logging in from multiple locations
- · Limit users to a single login per username.
- · Server Software runs as a Windows Service, for easy log retention.
- IP Server connects to all cameras; viewing clients in turn are connected to the IP Server to prevent direct camera connection
- Option to restrict users from accessing system from multiple locations.

Storage:

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

Performance

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

Easy Licensing

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

Support

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

Access Control Integration:

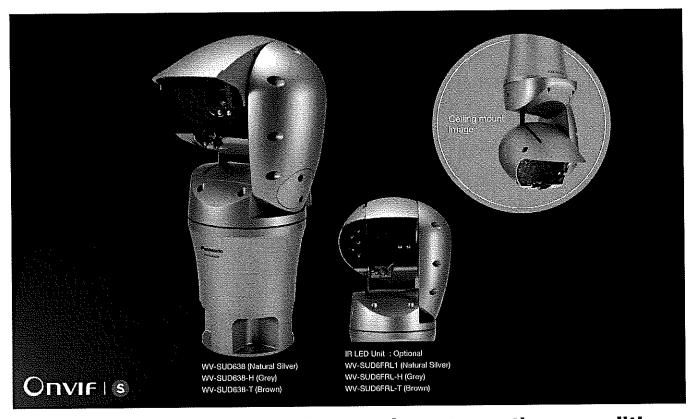
- Maxxess
 MonitorCast4.X
 Badge Pass
 Wren Solutions
 Paxton
 RBH Axiom V(AX5)
 Isonas
 AMAG
 AMAG
 DSX
 RS2
 Paxton
 Lenel
 S2
- Sureview
 IMRON
 Continental
 Software House

Panasonic BUSINESS

Anti-severe weather PTZ network camera

WV-SUD638

AeroPTZ



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

Krey/Headuric

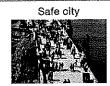
- Full HD (1080p) 60 fps, x30 zoom lens
- Built-in wiper and Auto defroster
- Wind load durability 60 m/s (135 mph) (operation)
 80 m/s (180 mph) (non-destructive)
- Video SAS (Stability Augment System) for high-class image stabilization
- "Sphere vision" provides 360° 3D viewing (Pan: 360° endless, 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

- 2 Intelligent Radius Unique radius bodyline keeps snow and dirt off.
- 3 Glass fiber body Deliver excellent strength, and anti-corrosion

Industry examples













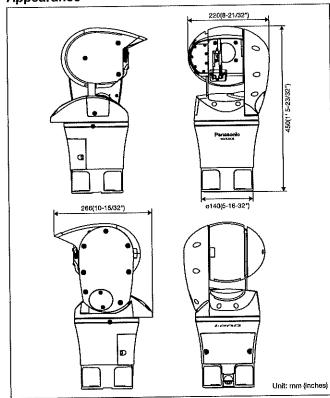
Specifications

	mage sensor	Approx. 1/3 type MOS image sensor
	Minknum 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 kx (F1.6, Maximum shutter : Off(1/30 s), AGC : High)
		0.001 lx (F1.6, Maximum shutter : max. 16/30 s, AGC : High)*
	İ	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)]
		O#(1/38) 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 etabilization	On / Off *Hybrid image stabilizer
	Image stabilization	Gray / Mosalo / Off (up to 32 zones available)
	Privacy zone	Up to 20 characters (alphanumeric characters, marks)
	Camera title on screen	Op to 20 characters (appliantment characters, marrie)
	Video Motion Detection (VMO)	On / Off, 4 areas available 30x / 45x with HD extra optical zoom (at 1280 x 720)
Lens	Zoom Ratio	(Motorized zoom / Auto Focus)
	Para de la composición del composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la composición de la com	
	Digital (electronic) zoom	x1, x2, x4 4.3 mm - 129 mm {3/16 inches - 5-3/32 inches}
	Focal length	14.0 BBB = 328 BBB for to Hodios - 5-0002 Hodios
	Maximum Ratio Aperture	1: 1.8 (WIDE) - 1: 4.7 (TELE)
	Focus range	2.0 m - ∞
:	Aperture range	F1.6 (WIDE) - Close
	Angular field of view	[16:9 model 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°
	i	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
	ļ	(Except when IR LED Unit is equipped, forward tilt mount, frozen.)
	Preset Positions	366 positions
	Auto Mode	Auto track / Auto pan / Preset sequence / 360 map-shot / Preset map-shot / Patro
	Self Return	10 s to 60 min
	Tilt flip	On / Off
	Map Shot	360° map shot / preset map shot
Alabaca-Ir	Network IF	10Base-T / 100Base-TX, RJ45 connector
Network	Image Resolution	•2 mega pixel [16:9] (60 fps mode / 30 fps mode)
	H.264	H.264 : Minimum 1,920 x 1080
		JPEG : Minimum 1,920 x 1080
	JPEG (MJPEG)	•1,3 mega pixel [4:3] (30 fps mode)
	1	41.3 mega pixer [4:3] (30 ips (11004) H.264: Minimum 1,280 x 960
	1	
		JPEG : Minimum 1,280 x 960
	Image compression method	
		Transmission Mode:
	1	Constant bit rate / Variable bit rate / Frame rate priority /
		Best effort / Advanced VBR
		Transmission type : Unicast / Multicast
		JPEG
		Image Quality : 10 steps
		Multiple streams individually configurable
!	Intelligent compression	Smart coding, VIQS (ROI)
1	Audio compression	G.726 (ADPCM) 32 kbps / 16 kbps
		G.711 64 kbps
	I	AAC-LC'2 64 kbps,
	1	AAC-LC(High quality)*2 64 kbps / 96 kbps / 128 kbps
	Protocol	IPV6: TCP/IP, UDP/IP, HTTP, HTTPS, FTP, SMTP, DNS, NTP,
	1	SNMP, DHCPv6, RTP, MLD, ICMP, ARP
		IPV4 - TCP/IP, UDP/IP, HITTP, HTTPS, RTSP, RTP, RTP/RTCP, FTP,
		SMTP, DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, AR
	Maximum concurrent	Up to 14 users
	I MRYLLINI COHCOHAUL	
	aaaaaa muurkan	I (Depande on network conditions)
ļ	access number	(Depends on network conditions)
	access number Mobile terminal compatibilit (As of September, 2016)	

Environment	Water and Dust Resistance	Main body : IP66, IP67, IEC60529 measuring standard compatible,
	-3	Type 4X(UL50), NEMA 4X compilant
		Waterproof RJ45 connector, Waterproof power connector,
		Waterproof I/O connector
	Shock resistance	Compliant with IK10 (IEC 62262)
	Salt damaga resistance	ISO14993 compliant
	Resistance to wind	60 m (135 mph) (Operation) / 80 m (180 mph) (Installation limit)
Genoral	Power source	AC100 to 240 V, 50 Hz / 60 Hz
		Tested PoE Injector* (60 W) *with limitations
	Operating environment	Ambient operating temperature :
	, ,	-50 °C to +60 °C (-58 °F to 140 °F)* (When using AC100 to 240 V)
		-30 °C to +60 °C (-22 °F to 140 °F)* (When using tested PoE injector
	1	(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.
	1	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	93,5 mm monaurai mini jack
	•	Input Impedance : Approx. 2 kΩ (unbalanced)
	For line input	Input level : Approx10 dBV
	Audio output	ø3.5 mm stereo mini jack (monaural output)
		Output impedance: Approx. 600 ((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 ibs)
	Finish	Main body : High-strength resin of salt damage resistance
		WV-SUD638 : Natural Sliver
	1	WV-SUD638-H: Gray (N7)
		WV-SUD638-T : Brown (Environmental color)
	1	Front glass : Glass, Clear

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

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- 1. UN plans special meeting on technology and counter-terrorism
- 2. Senators send ransomware inquiry to DOJ, DHS
- 3. First recommendations from NIST Joplin tornado study adopted
- 4. FirstNet user advocacy team staffs up in advance of meetings
- 5. DHS to announce terror alert system changes
- 6. Feds offer cities a transportation golden ticket

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Today's Top News

1. <u>UN plans special meeting on technology and counter-terrorism</u>

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InLinkedIn

A counter-terrorism committee established by the United Nations Security Council in the wake of the Sept. 11 attacks will hold a special meeting on preventing and combating abuse of Internet and communications technology for terrorist purposes.

The meeting and technical sessions will be held Dec. 16 and 17 in New York City, according to an announcement from the UN.

The Islamic State and other terrorist groups and their supporters use the Internet as a means to broadcast their radical ideology and as an effective recruitment tool, said a concept note (<u>pdf</u>) about the meeting.

"It is expected that participants in the special meeting will recommend a set of strategies to guide states and the private sector in their efforts to prevent terrorists from exploiting the Internet and social media to recruit terrorists and incite terrorist acts, while respecting human rights and fundamental freedoms," said the concept note.

During the event, speakers will map the landscape of current threats and challenges of terrorist use of ICT, as well as related privacy and freedom of expressions concerns, international cooperation and lessons learned from member states.

Among the sessions planned for the event (<u>pdf</u>), the committee intends to explore current efforts of the private sector to block services when used for terrorist purposes and to provide platforms for alternative voices and positive narratives.

"Good practices in formulating and disseminating effective countermessaging from the private sector's perspective will also be addressed," said the agenda.

A complementary technical session (<u>pdf</u>) will cover how technology companies handle the "right to be free from arbitrary or unlawful interference of privacy and to freedom of expression in the context of counter-terrorism and ICT."

For more:

- read the announcement
- download the concept note (.pdf)

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2. Senators send ransomware inquiry to DOJ, DHS

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InlinkedIn

In letters to Justice and Homeland Security department leadership last week, Sens. Tom Carper (D-Del.) and Ron Johnson (R-Wis.) sought information on how government is combating the growing threat from ransomware.

Ransomware, a type of malware that forces targets to make online payments in order to regain access to their systems, is an increasingly popular cyberthreat especially targeting government at the state and local level, <u>according to</u> a Dec. 3 announcement from the senators.

"While much attention is paid to what must be done to bolster the cyber defenses at federal agencies and large businesses, all of us [are] vulnerable to online scams and emerging dangers like the malicious computer virus known as 'ransomware,' said Senate Homeland Security and Governmental Affairs Committee Ranking Member Carper and Chairman Johnson in a joint statement.

Perhaps the most notable ransomware was "CryptoLocker," which infected more than 250,000 computers globally and targeted both businesses and consumers. The virus enabled the extortion of approximately \$27 million from infected users in just two months, according to the senators.

In 2014, FBI and other authorities working with private sector partners in 10 different countries were able to take down CryptoLocker. However, Evgeniy Mikhailovich Bogachev, who is believed to have developed the ransomware is still at large and wanted by the FBI. The agency is offering a reward of up to \$3 million for information leading to the arrest or conviction of Bogachev.

In letters to Attorney General Loretta Lynch and Homeland Security Secretary Jeh Johnson, the senators noted that, although CryptoLocker was successfully disrupted, just weeks later the FBI's Internet Crime Complaint Center identified a copycat virus named "CryptoWall."

"Between April 2014 and June 2015, the IC3 received 992 CryptoWall-related complaints, with victims reporting losses totaling over \$18 million," said the letters.

Carper and Johnson want information on what DOJ and DHS are doing to address the growing threat of ransomware. The senators are seeking information on how many victims have reported ransomware-related crimes in the past 10 years, and an estimate of total losses associated with the cyberattacks.

DOJ and DHS are also asked to identify the active ransomware viruses currently being tracked by the departments, as well as how the two departments share threat information and coordinate with the Federal Trade Commission. The senators also want an update on

the challenges DOJ faces in capturing Bogachev.

Given DHS's governmentwide IT security monitoring role, the senators also wanted to know how many instances of ransomware DHS has been made aware of in federal agencies' computers in the past year, and which agencies and systems were involved. They also asked how DHS's EINSTEIN, ALBERT and Enhanced Cybersecurity Services intrusion detection and prevention systems are used to prevent ransomware.

For more:

- <u>read</u> the press release (includes full text of letters to Lynch and Johnson)

Related Articles:

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Report links ongoing malware campaigns to Russian-backed group
Commerce task force seeks to start discussion on cybersecurity
issues with many stakeholders

Read more about: Evgeniy Mikhailovich Bogachev, Ron Johnson back to top

3. <u>First recommendations from NIST Joplin tornado study adopted</u>

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InlinkedIn

The first policy changes have been adopted based on recommendations made in a technical investigation of the devastating tornado that struck Joplin, Missouri, in May 2011, according to the National Institute of Standards and Technology.

In March 2014, NIST published an in-depth report (<u>pdf</u>) on the wind pressure and debris that damaged buildings, the performance of emergency communications, the effect of public response to tornado hazards and shelter area performance on survival and injury, and building and emergency communications codes.

Sixteen recommendations came out of the Joplin study that would improve how buildings and shelters are designed, constructed and maintained in tornado-prone regions, as well as emergency communications and warning systems.

Marking a major milestone for disaster preparedness and response to the investigation, the <u>International Code Council</u> recently approved building code changes to the nation's most tornado-prone regions, according to a Dec. 7 press release from NIST.

The updated codes apply to an area stretching from northern Texas to central Minnesota and from western Oklahoma to western Pennsylvania. They require enhanced protection for new school

buildings and additions to buildings on school campuses as well as assembly areas, like gymnasiums. Storm shelters will also now be required to protect all occupants from storms with wind speeds of 250 miles per hour.

The improved storm shelter requirements that correspond to NIST recommendations will be published in ICC's 2018 International Building Code and 2018 International Existing Building Code, which are enforced by U.S. state and local governments, said NIST.

"Solid progress is being made working with code developers, state and local officials, U.S. agencies such as the Federal Emergency Management Agency and others toward realizing all of the proposed improvements for tornado protection and resilience in our study," said Marc Levitan, NIST's lead for the Joplin investigation, in a statement.

For example, Levitan's team recently helped FEMA improve guidance on public sheltering strategies and practices in <u>a technical</u> publication that came out in March.

Levitan said the code adoption is an important first step in the implementation of NIST recommendations from the report.

Recommendations that have yet to be implemented include recommendations to the National Oceanic and Atmospheric Administration for weather radar improvements, National Weather Service for publicly available tornado data and the National Fire Protection Association and federal partners for national codes and standards and uniform guidance for "clear, consistent, recognizable and accurate emergency communications and encompassing alerts and warnings, to enable safe, effective and timely responses."

For more:

- read the NIST press release
- download the report, "Technical Investigation of the May 22, 2011, Tornado in Joplin, Missouri" (.pdf)

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4. <u>FirstNet user advocacy team staffs up in advance of meetings</u>

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InclinkedIn

The group tasked with standing up a nationwide public safety

broadband network has made strides in rounding out its consultation team roster — an important factor in executing its ambitious outreach and engagement strategy for the coming year.

The First Responder Network Authority, or FirstNet, recently welcomed six new team members as regional, area and federal coordinators and a federal consultation liaison, according to a Dec. 7 announcement.

Three of the six hires come from the federal government — two from Immigration and Customs Enforcement and one from the Justice Department — and two from state government.

The hires came in advance of meetings this week in Houston, <u>said</u> a meeting announcement posted Nov. 30 in the *Federal Register*.

Today the group will hold a joint meeting of FirstNet's Governance and Personnel, Finance, Technology, and Consultation and Outreach committees, which will be followed by closed sessions through the afternoon.

During a session run by FirstNet's Public Safety Advisory Committee, the committee is expected to address issues related to priority access and preemption, according to The National Law Review.

The event is being live streamed for the public.

For more:

- read the press release
- read the meeting announcement
- qo to the meeting page (includes live stream and transcript)

Related Articles:

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<u>FirstNet seeks feedback on incumbent relocation proposal</u>

<u>New first responder network passes initial test in Atlantic City</u>

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5. DHS to announce terror alert system changes

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InclinkedIn

The Homeland Security Department will announce "in the coming days" changes to its terrorist threat level warning system, <u>said</u> DHS Secretary Jeh Johnson during *Defense One*'s Leadership Briefing in Washington, D.C., Dec. 7.

"We've replaced the color codes, the color bars with a system called

NTAS, the National Threat Advisory System, which we have never used, because it depends upon a specific credible threat to the homeland." Johnson told event attendees.

"I believe that in this environment, we need to get beyond that and go to a new system that has an intermediate level to it," he added.

Johnson said he would announce a new system soon that better "reflects the current environment and the current realities."

Johnson said the new system will more clearly reflect what the government is seeing, what it is doing about it and what the public should do.

"The NTAS system is intended to do that, but it has this trigger that's a pretty high bar, which is why we've never used it," he said.

Johnson told the *Defense One* event that this will eliminate "some of the mystery about the global terrorist threat."

For more:

- watch an archived video of the Defense One event

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Terror threat level high as it's ever been, says House Homeland Security Committee report

Islamic State inspired, directed nearly 5 dozen attacks against the West in 2015, report says

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6. Feds offer cities a transportation golden ticket

By Chris Nehls

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The U.S. Department of Transportation is preparing to help smalland medium-sized cities that think big about the future of their transportation infrastructure.

The department announced Monday that it will award \$50 million to the city between 200,000 and 850,000 people that devised the best plan to use cutting-edge technologies to improve local transportation for decades to come. Dubbed the Smart City Challenge, the prize competition was announced by Transportation Secretary Anthony Foxx in an exclusive story in *Wired*.

The competition is also a public-private partnership: Microsoft executive Paul Allen's Vulcan charity will contribute \$10 million of the ultimate payout specifically to support infrastructure for electric vehicles.

To qualify for the prize, cities must not be part of a larger metropolitan region and must have a public transportation system. Participants are not required to work with nearby cities and towns.

Howard Jennings, managing director of the Virginia-based Mobility Lab, told *Wired*, "I think it's an amazingly good idea." While \$50 million "can get eaten up in a heartbeat" by a construction project, this level of funding can support a robust slate of technologies.

Other than those baseline requirements, the Smart Cities Challenge offers <u>few specific guidelines</u> for cities to follow. Entrants must allow operations by "sharing economy" firms like rideshare services and commit to open data principles. They also should reflect the goals identified in <u>Beyond Traffic 2045</u> (pdf), the DOT's broad policy framework to use connected technologies, data analytics and alternative fuels to address the challenges of future population growth and climate change.

While the DOT's announcement mentioned technologies like Intelligent Transportation Systems and automated vehicles, Secretary Foxx said the competition is designed to encourage cities to think broadly about bringing systemic change to their local transportation systems in the near future.

"We needed to do something that would basically jumpstart an entirely new, forward-looking conversation about what communities can do to build for the future," Foxx told *Wired*.

The hundred or so cities that qualify for the competition will have to hurry: proposals must be submitted by February 4, 2016. The department will select five finalists in March, which will each receive \$100,000 to develop their plans further. The final winner will be announced in June.

For more:

- download competition guidelines
- read the Wired story
- read a Seattle Public Radio story

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- 2. <u>Privileged access to federal IT systems remains a problem, survey finds</u>
- 3. IG finds security oversight of IRS data-sharing channels lacking
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Today's Top News

1. 'E-Neva Convention' needed to set international standards for cyberwarfare, say lawmakers

By Robert Bartley

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Members of the House Intelligence Committee's National Security Agency and cybersecurity subcommittee sent an open letter to Secretary of State John Kerry and National Security Advisor Susan Rice last week urging the Obama administration to work to create clearer international laws and regulations for cyberwarfare and attacks.

The letter, which asked for a cyber version of the Geneva Conventions — the E-Neva Convention — was signed by ranking member of the subcommittee Congressman Jim Himes, chairman Lynn Westmoreland and other subcommittee members.

Defending against cyber incursions has become standard for the digital countries of the world, whether that be against independent cyber vandals or orchestrated nation-states. However, the members of the subcommittee warned about the possibility of a catastrophic

cyber event that could surprise the nation if standards aren't agreed upon.

"Today, at least 29 countries currently dedicate full military and intelligence units to cyber warfare," read the letter. "Intelligence and technology analysts have warned repeatedly about the potential devastation of a 'Cyber Pearl Harbor' — an attack on national infrastructure that could cause massive economic damage and leave millions of citizens exposed."

The letter also said that recent work, like the cyber agreements President Obama made with Chinese President Xi Jinping, are a step in the right direction. Further, efforts in the United Nations have led to a nonbinding affirmation that international law does extend to cyberspace.

The subcommittee members said a cyber agreement akin to the Geneva Conventions wouldn't necessarily prevent all cyberwarfare and bad behavior, though it "is in the best interest of all nations, however, to establish comprehensive, official norms for cyberspace."

For more:

- read the letter from the subcommittee members

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US cyber chief discusses challenges, solutions to security

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2. <u>Privileged access to federal IT systems remains a problem, survey finds</u>

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InLinkedIn

Federal workers may have more access to IT systems and

applications than they need, and those working in agencies' more sensitive systems often go unmonitored, a recent survey found.

Ninety-two percent of the 150 federal IT professionals surveyed said employees within their organization had access to more information than necessary to do their job. Only 47 percent said they log or monitor all administrative or privileged access, while 45 percent said they log some, according to a report published by Dell Nov. 9.

Identifying privileged users and doubling down on personal identity verification, or PIV, cards were a major focus of a "cybersecurity sprint" the Office of Management and Budget launched over the summer in response to recent breaches. Even if actual access management has improved as a result, keeping tabs on what is accessed once users are cleared for entry has not, said Paul Christman, vice president of Federal for Dell Software.

"We are getting better at knowing you are who you say you are, but we're not getting better at controlling what you do, once you've established who you are," said Christman.

Eighty-nine percent of federal respondents said better control of administrative or privileged accounts would reduce the risk of a security breach, while only 76 percent of non-U.S. federal respondents in a broader global survey agreed.

Only 19 percent of respondents change administrative and privileged passwords on mission critical systems and devices every 30 days, finds the report.

While the survey was conducted just prior to the cybersecurity sprint, it is unlikely better results would be reported today, said Christman. Agencies' recent work around PIV and multifactor authentication is a very meaningful step, he said, but it only protects against a very specific threat.

"I'm concerned that people are going to claim victory on the whole strong authentication and multifactor authentication. And we're just going to say 'mission accomplished,'" said Christman.

He added that those improvements really lay the groundwork for privileged session management and monitoring. Now that agencies have pushed hard on authentication, they're beginning to explore what more needs to be done to reduce risk from "the disgruntled insider," he said.

For more:

- <u>download</u> the report, which includes U.S. federal and global enterprise findings (registration required)

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OMB expected to 'substantially change' identity management performance metrics

Mobile identity management 'key focus' for Air Force, industry NIST issues draft solution for two-factor authentication on mobile

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3. <u>IG finds security oversight of IRS data-sharing</u> channels lacking

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InchedIn

The Internal Revenue Service shares information with federal, state, local, private sector and contractor partners through a system of interconnections, but not all of those channels for sharing sensitive data are secure, finds a new report.

"Many interconnections in use at the IRS do not have proper authorization or security agreements," finds a recently released report from the Treasury Inspector General for Tax Administration.

While the agency has designated an office to oversee that security controls are applied to such interconnections, the office only monitors and manages some — not all — agreements, says the report (pdf), which is dated Sept. 14.

"These system interconnections are critical and must be properly designed and managed to meet security requirements," <u>said</u> J. Russell George, Treasury Inspector General for Tax Administration, in a statement. "If not, failures could compromise the connected systems and the sensitive data that they store, process or transmit."

Several active interconnections lack proper security approvals and assurances, according to the audit. Report authors say an enterprise-level approach would better ensure that all external interconnections are monitored.

In a written response to a draft of the report, IRS Chief Technology Officer Terry Milholland agreed with all six recommendations issued in the audit.

Milholland said the IRS will identify external interconnections, establish a system for identifying external interconnections, stand up policies and procedures so that the interconnections inventory remains updated, establish a process to resolve agreement renewal issues, ensure that interconnection agreements are compliant and timely, and streamline interconnection agreement practices, according to the report.

For more:

- download the report (.pdf)

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4. <u>Despite damning checkpoint review, watchdog</u> optimistic about direction of TSA

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InLinkedIn

The latest round of covert tests of the Transportation Security Administration's airport screening operations unveiled serious problems, but the Homeland Security Department Inspector General said the agency is moving in the right direction.

The review, conducted in September, tested checkpoint operations as a whole in real world conditions, <u>said</u> DHS Inspector General John Roth during a Nov. 3 hearing before the House Oversight and Government Reform Committee.

"The failures included failures in the technology, failures in TSA procedures and human error. We found layers of security simply missing," Roth said in his prepared testimony (pdf).

"It would be misleading to minimize the rigor of our testing, or to imply that our testing was not an accurate reflection of the effectiveness of the totality of aviation security," he said.

TSA Administrator Peter Neffenger is just four months on the job, but he told lawmakers he's made it his "immediate priority" to pursue solutions to the inspector general's recent covert testing findings.

During his testimony, Roth said the department and TSA leadership is undergoing "critical self-evaluation" to address the issues in the latest report — which were not detailed during the hearing due to their classified nature.

"The department's response to our most recent findings has been swift," said Roth.

"Within 24 hours of the release of preliminary results of OIG testing, the secretary summoned senior TSA leadership and directed that an immediate plan of action be created to correct deficiencies uncovered by our testing. TSA has put forward a plan, consistent with our recommendations, to improve checkpoint quality in three

areas: technology, personnel and procedures," he said.

For more:

- go to the hearing page (includes archived webcast and prepared testimony)

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- 2. <u>Budget agreement could boost federal spectrum sharing, says</u>
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- 3. <u>Survey: Federal IT concerned about remote-, branch-office</u> security
- 4. <u>Federal Reserve is in cross-hairs of cyberattackers, warns Fed</u> official
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Today's Top News

1. <u>DoD moving \$3.5B in IT systems to vacate spectrum, says Wheeler</u>

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InLinkedIn

To support the federal government's recent spectrum auction to the private sector, the Defense Department is shifting its technology to operate in new radio frequency bands.

"I'm moving my systems," said Maj. Gen. Robert Wheeler, DoD's deputy chief information officer for command, control, communications and computers and information infrastructure capabilities.

"I'm moving approximately \$3.5 billion worth of systems — whether that be on aircraft, ships, if you will, telemetry-type systems," he <u>said</u> during a Nov. 5 address at the Center for Strategic and International Studies in Washington, D.C.

At the same time DoD is transitioning its systems away from recently sold spectrum, it's also preparing for the possibility of yet another auction, said Wheeler.

As the department works with federal partners to determine the best opportunities to offload spectrum, owners of spectrum used for mission-critical purposes find themselves reminding stakeholders that usage alone is not a good indicator of spectrum that can be

sold.

"We always say, 'well, you don't use that spectrum very often. You only use that 5 percent of the time,'" said Wheeler during the event.

"Well, thank God," Wheeler said, joking that the band of spectrum in question might be used for a system that intercepts inbound missiles.

"You can't put someone commercially on that because if you do and I don't get it the day I [I need it], that's just a bad day for America," said Wheeler. "Once you walk through that, people realize it shouldn't be used 24/7 and you don't want that to happen."

During the event, Wheeler called the balance of licensed, unlicensed and government spectrum demands a "contested environment," especially in terms of DoD's use of spectrum-dependent technologies outside of the United States.

"Sometimes our bands don't match the other ones in the rest of the world. Our telecom band, for many cases, in different parts of the world, does not in any manner, shape or form represent the exact band in other countries," he said.

In a combat scenario, that means technology that works in a test environment at home might work differently abroad. Just turning on the technology could mean that a commercial incumbent or "a bad guy" could jam the signal, said Wheeler.

It's both an international regulatory challenge and a technological challenge, he said.

"We're moving out into new areas that we haven't had before, and there's going to be some rough edges," said Wheeler.

For more:

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2. <u>Budget agreement could boost federal spectrum</u> sharing, says NTIA official

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | LinkedIn

A two-year budget agreement signed by President Obama Nov. 2 will allow federal spectrum holders greater access to funds, which could boost spectrum sharing efforts, according to one National Telecommunications and Information Administration official.

<u>Sec. 1005</u> of the Bipartisan Budget Act of 2015, Public Law 114-74, relaxed the definition of eligible federal entity, explained Peter Tenhula, deputy associate administrator for spectrum management at NTIA.

When federal incumbents are shifted out of their bands to free up spectrum for auction, they have to go somewhere. Usually that requires more fed-to-fed spectrum sharing, <u>said</u> Tenhula during a Nov. 5 panel discussion hosted by the Center for Strategic and International Studies in Washington, D.C.

Under the new law, agencies that sit in the third or fourth "domino bands" of spectrum — or those non-auctioned frequencies that are indirectly impacted — and incur costs as a result of having to share with other agencies or systems can tap into the Spectrum Relocation Fund.

Making sure that costs are covered both before and after the auction promotes information sharing, said Tenhula. "That's a big development," he said.

Tenhula noted that balancing spectrum access needs among agencies within the federal government is actually more difficult than negotiating in the commercial space.

"It's all about collaboration, and that's what we're working on," said Tenhula.

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3. <u>Survey: Federal IT concerned about remote-, branch-office security</u>

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InLinkedIn

New research reveals that nearly nine in 10 federal IT executives are concerned about data insecurity at remote or branch offices.

Thirty-one percent of the 108 respondents said their organization had experienced a remote office breach within the last 12 months, according to a new <u>survey</u> from Riverbed Technology, a San Francisco-based company specializing in application performance, and conducted by i360Gov.com.

"Branch offices are simply not equipped to protect sensitive government data in today's cyber security environment," <u>said</u> Davis Johnson, vice president of public sector at Riverbed Technology, in a Nov. 4 press release from the company.

Federal IT respondents viewed staff and data outside of headquarters as the biggest security risks. Thirty-three percent said that staff at branch offices are unable to effectively respond to security incidents and 24 percent said data stored at offsite locations raises risks.

More broadly, IT performance issues at remote and branch offices are a problem, with 44 percent reporting an outage or issue over the past year. Fifty-five percent of respondents cited networks as a root performance problem and 48 percent said it was services or hardware.

Thirteen percent said it often takes more than a day to resolve an outage.

Despite these issues, 65 percent said they would not consider moving branch IT from offsite locations.

"This contradicts popular 'best practice' thinking, which centers on

the need to centralize all IT operations and virtualize as much as possible to gain better control, management and security," said the report.

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4. Federal Reserve is in cross-hairs of cyberattackers, warns Fed official

By Fred Donovan Comment | Forward | Twitter | Facebook | LinkedIn

BOSTON – Cyberattackers are increasingly targeting the Federal Reserve System, which processes \$4.5 trillion in electronic financial transactions every day, according to Don Anderson, senior vice president and chief information officer at the Federal Reserve Bank of Boston.

Anderson, who spoke at the Advanced Cyber Security Center's annual conference held here on Wednesday, identified four major cybersecurity risks for the Fed: Disruption of critical operations, compromise of the financial system, loss of sensitive information and diminished public confidence.

Anderson estimated that a few minute disruptions of the Federal Reserve's IT infrastructure could cost the U.S. economy millions, if not billions, of dollars.

A weak link in the Fed's cybersecurity defense is the small bank, which often doesn't have the resources or knowledge to institute strong cybersecurity practices and policies. Yet, small banks connect to the Fed's computer system just like the big banks, and therefore pose a potential cyber risk, Anderson said.

"If you are small bank with two or three branches, there are some cases where the person running the IT security is also a branch manager and responsible for providing the president with a new laptop," Anderson related.

"We saw this as a weakness in our overall supply chain because these banks have connectivity to the Federal Reserve. If those

banks are compromised, it could impact us or it could have a ripple effect on others," he added.

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5. State Department looks to enhance biometric identity assurance technology

By Molly Bernhart Walker♥Comment | ☑Forward | ☐Twitter | ☐Facebook | ☐LinkedIn

The State Department is considering updates to an identity assurance system that collects and matches fingerprint, iris and face data. The system, called Tactical High-Threat Operational Response, or THOR, needs additional work because the Defense Department halted in December 2014 a program with similar capabilities that was used by the State Department.

The State Department is seeking more information on how THOR can be better integrated, enhanced and how information retrieval capabilities can be improved upon, <u>according</u> to an Oct. 19 request for information posted to FedBizOpps.gov.

The THOR system, which is comprised of both hardware and software, has two main components that together "form an enterprise-ready, network-enabled collection, enrollment, submission, response aggregating, archiving and Identity Assurance architecture to support Diplomatic Security, High Threat Post operations worldwide."

The two parts are:

- The THOR Enrollment Collection Station subsystem, which can operate on a Windows 7 desktop and some laptops, tablets and Android devices.
- The DS THOR Broker, which is a full Client-Server-Database n-Tier architecture operating across a local area network or wireless area network.

Information gathered in response to the notice may inform a future contract. That contract would deliver technical and analytic support to the chief technology officer in the ongoing operations, maintenance, support and further development of additional components of the identity assurance system, says the solicitation.

For more:

- read the RFI on FedBizOpps.gov

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6. <u>Encryption prevents the FBI from using its</u> legitimate authority, says general counsel

By Fred Donovan

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BOSTON – The Federal Bureau of Investigation and other law enforcement agencies are not able to use the existing legal mechanisms in place today, such as search warrants, to conduct investigations because of technical obstacles, James Baker, general counsel at the FBI, told an audience at the Advanced Cyber Security Center annual conference held here in Wednesday.

"We can get a Fourth Amendment warrant, we can meet the legal requirements, we show up with the order and we can't get the fruits of the surveillance for a variety of technical reasons, increasingly because of encryption," Baker said.

The FBI and other law enforcement officials have been locked in a battle with high-tech companies such as Apple and Google over the use of encryption to secure devices and communications to protect users' privacy.

Susan Landau, professor of cybersecurity policy at Worcester Polytechnic Institute, told the conference that she has seen a lot of distrust and anger among U.S. high-tech companies about U.S. government surveillance.

Because of the revelations by Edward Snowden and the FBI's efforts to gain access to encrypted information, "Silicon Valley really distrusts the U.S. government," Landau said. "Having spent some time at Google a couple of years ago, I saw just how high that level of tension was," she said.

At the same time, Silicon Valley wants to help law enforcement get access to information when it has a legitimate reason to do so, she added.

Eric Wenger, director of cybersecurity and privacy for global government affairs at Cisco Systems, stressed that encryption has

been beneficial to the U.S. economy, particularly in terms of protecting intellectual property and customer data.

Wenger said he understands that encryption increases the difficulties and complexity for law enforcement in conducting investigations.

"I sympathize with the frustration that law enforcement has when they go and try to execute the [court] order after jumping through all the hoops that are required and they are not getting back information in the form they are accustomed to receiving ... [Unlike in the past] there is no one place you can go to with the order and get the plaintext that would be familiar to law enforcement to advance their investigations," he concluded.

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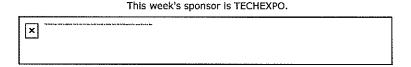
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Today's Top News

1. GAO doesn't fully endorse FITARA scorecard conclusions

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InLinkedIn

Yesterday morning, the House Oversight and Government Reform Committee released a scorecard grading agencies on their implementation of the Federal Information Technology Acquisition Reform Act, or FITARA — but during a hearing later that afternoon, a Government Accountability Office official said he did not fully concur with the conclusions the committee drew from agencies' self-reported data.

In <u>the report</u>, no agency received an "A" for its overall FITARA implementation grade and three agencies received an "F." Fifty-eight percent received a "D" for their performance implementing the legislation.

David Powner, GAO's director of IT management issues, faulted the scorecard for failing to offer accurate agency-to-agency comparisons — particularly in the area of data center consolidation. While the Treasury and Transportation departments received "F"s for missing goals, "we feel better about their Fs because they have high goals," <u>said</u> Powner during a Nov. 4 hearing of the House Oversight and Government Reform subcommittees on information technology and government operations.

"Some agencies that have 'A's and 'B's with low goals have achieved more than their goals. We don't feel so good about those," he added.

Powner said the Commerce, Defense, Homeland Security, Transportation and Treasury departments have been the most successful in data center consolidation efforts; however, according to the FITARA scorecard for the data center consolidation category, only Commerce and DHS received "A"s. The other three received "F" grades.

Powner said the issue is important because data center consolidation presents a real opportunity to save money.

"This is the big dollar savings areas. FITARA requires annual publicly reported updates on savings. Our ongoing review for this committee highlights the importance of this section of the law," Powner told the committee.

Among other things, the legislation gives chief information officers a greater role in IT program governance, personnel processes and improves the transparency into IT investments. This summer, the Office of Management and Budget <u>issued implementation</u> <u>guidance</u> in the form of a memorandum on the "Management and Oversight of Federal Information Technology" (pdf).

OMB's FITARA implementation guidance uses a common baseline approach that outlines the roles and responsibilities of CIOs and other leaders, said Federal Chief Information Officer Tony Scott.

Scott noted that while agencies had submitted self-assessments on how current operations map to the common baseline, they aren't scheduled to submit an implementation plan to show how they will implement the common baseline requirements until the end of the year.

Key themes are already emerging from initial feedback, he said, including agencies' challenges with budget formulation, budget execution and IT acquisition.

"We're working actively with each agency to address these issues for their final plan," said Scott.

He said the real measure of agency performance will be seen in coming months and beyond.

"If we can really make progress in the next year or two, I think that's the real test," said Scott. "Hopefully, the scorecard can reflect real-time progress as we go down the road."

For more:

- <u>go to</u> the hearing page (includes archived webcast and prepared testimony)

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2. <u>DHS Secretary remains focused on E3A, CDM programs</u>

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InlinkedIn

Homeland Security Department Secretary Jeh Johnson said he is determined to make "tangible improvements to cybersecurity" in the final months of the Obama administration through the department's EINSTEIN 3 Accelerated and Continuous Diagnostics and Mitigation, or CDM, programs.

"My goal, for the remainder of this administration is for the entire civilian government to be covered by a common baseline of security provided through E3A and CDM, and to maximize the number of companies benefiting from cybersecurity information sharing with the Department of Homeland Security," said Johnson during an event Nov. 4 hosted by the Council on Foreign Relations.

Under a cybersecurity plan <u>unveiled by the White House Oct. 30</u>, DHS is directed to make E3A protections available to agencies not currently shielded by E3A providers before the end of the calendar year.

Johnson said DHS now protects 47 percent of the federal government with E3A, and to date the intrusion prevention portion of the EINSTEIN program has blocked over 700,000 actions potentially aimed at stealing government data.

He said he has directed the agency to speed up E3A deployment with the intention of making at least one E3A security measure available to all federal agencies by the end of 2015. Johnson said DHS reached a major milestone Oct. 31, when its system to send and receive cyber threat information in near-real time became operational.

"We are working with multiple agencies and private sector partners to expand the number of those sharing and receiving information through the automated system," said Johnson.

DHS also recently made the first phase of its CDM program available to 97 percent of the federal civilian .gov network.

"We met this milestone weeks ahead of schedule," said Johnson. "Agencies are now working diligently to deploy CDM. Once fully implemented, CDM will monitor agency networks internally for vulnerabilities that could be exploited by bad actors and have reached the perimeter."

For more:

- watch an archived video of the event

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3. NIST instructs agencies to use application control programs in new guidance

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InLinkedIn

The National Institute of Standards and Technology has published comprehensive resources on application whitelisting, as well as a step-by-step guide to implementing the technique to prevent malware intrusion.

Published last month, NIST Special Publication 800-167 (pdf) instructs federal agencies to use modern whitelisting programs, or application control programs, to stop cyber threats rather than slower, manual methods of whitelisting.

NIST also says whitelisting is an ideal solution for federal agencies and departments. While antivirus software blocks only known bad activity, whitelisting permits only known good activity, NIST Senior Information Technology Policy Advisor Adam Sedgewick <u>said</u> in a Nov. 5 press release, making it perfect for large entities with managed enterprise environments.

Report authors say agencies should take a phased approach with deployment, with risk assessment as the first step. Not only does the document provide guidance on evaluating application whitelisting technology, it covers important considerations for the

deployment of such solutions in different operational environments.

SP 800-167 also covers the use of application whitelisting on mobile platforms, with Appendix B dedicated to the subject. According to NIST, "typical standalone application whitelisting technologies are generally not available for mobile devices as of this writing."

NIST says mobile device management, mobile application management and enterprise app store technologies can help agencies achieve the same effect of whitelisting, however.

The new guidance incorporates feedback on the draft version of the publication, which published Aug. 22. The comment period closed Sept. 26.

For more:

- <u>download</u> NIST SP 800-167, Guide to Application Whitelisting (.pdf)
- read the press release

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4. White House launches senior leadership development program

By Chris Nehls QComment | Forward | Twitter | Facebook | LinkedIn

The White House Tuesday announced its inaugural cohort of a development program aiming to boost the skills of senior federal workers.

The first 16 <u>fellows</u> of the White House Leadership Development Program spend a year on rotational assignments working on crossagency projects. They also will participate in exercises to encourage collaborative practices and discussions with practice area experts. And because it is Washington, D.C., fellows will have plenty of networking opportunities across government departments as well.

Fellows also will work on the implementation of the administration's 15 <u>Cross-Agency Priority Goals</u> for 2015 as determined by the Office of Management and Budget. These goals include mission-oriented challenges like climate change, cybersecurity and veterans' mental health, as well as management challenges like more effective IT product delivery and open data practices.

The program is open to federal employees at the rank of General Schedule-15.

President Obama announced the program <u>last December</u> as part of a broader administrative push to bring greater effectiveness and efficiency to the federal workforce.

"We want the next generation of leaders to have the experience of solving problems and building relationships across the government," Obama said at the time. "Because one thing that we have to acknowledge is that our government often statutorily was organized for the needs of the 1930s or '40s or '60s, and too often, we get stove-piped at a time when we need people with different skillsets and different agencies to be working together."

The fellows have received approval for promotion to the Senior Executive Service by completing agency candidate development programs, are enrolled in such a program, or have received high marks in annual department rankings.

For more:

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5. Proposed legislation would extend NCCIC to state, local government

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InLinkedIn

Legislation proposed Nov. 2 by Rep. Will Hurd (R-Texas) would allow state and local governments access to some cybersecurity resources previously only available to a select few in the federal government and private sector.

The State and Local Cyber Protection Act of 2015 [H.R. 3869] would direct the Homeland Security Department's National Cybersecurity and Communications Integration Center, or NCCIC, to help interested state and local governments.

It would also require the NCCIC to "seek feedback from state and local governments in order to report on the effectiveness of their

efforts," said Hurd's press release.

The NCCIC can help partners detect system vulnerabilities and identify solutions. It also provides technical, implementation and privacy training for cybersecurity analysts, noted the announcement.

It was recently elevated within DHS's department structure with the addition of an incident reporting line directly to DHS Secretary Jeh Johnson. It serves as a cyber information sharing hub, primarily serving federal agencies and private sector partners that compose the nation's critical infrastructure.

"This is common-sense legislation that strengthens our nation's cyber posture at every level of government," <u>said</u> Hurd in a statement.

For more:

- go to the Congress.gov page for H.R. 3869
- <u>read</u> the press release

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Today's Top News

1. No winners and 3 failing grades in FITARA Implementation Scorecard

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | LinkedIn

The House Oversight and Government Reform Committee today issued the first version of its FITARA Implementation Scorecard. The assessment uses self-reported data to assign each of the 24 Executive Branch agencies a letter grade for their success or failure executing the Federal Information Technology Acquisition Reform Act, or FITARA.

No agency received an "A" for its overall FITARA implementation grade and three agencies received an "F," according to the scorecard (<u>pdf</u>).

A whopping 58 percent, or 14 agencies, received a "D" for their performance implementing the legislation, which gives CIOs a greater role in IT program governance, personnel processes and improves the transparency into IT investments, among other things. The committee doled out only two "B" grades, as well as five "C" grades.

"FITARA provides a set of tools and guidelines, that when implemented properly, allows agencies to better manage and secure IT systems and acquisitions. Legislation is only as good as its implementation. Congress will continue to oversee this process until quality IT systems are in place," said the legislation's five co-authors in a Nov. 4 statement from the House Oversight and Government Reform Committee.

This summer, the Office of Management and Budget <u>issued implementation</u> <u>guidance</u> in the form of a memorandum on the "Management and Oversight of Information Technology Resources" (<u>pdf</u>).

As part of the plan, OMB asked agencies to map any gaps between FITARA requirements and current IT operations and oversight by Aug. 15. OMB said self-assessments would be publicly released later with OMB approval.

FITARA Implementation Scorecard November 2015

Agency	Data Center Consolidation	IT Portfolio Review Savings	Incremental Development ²	Risk Assessment Transparency	Overall Grade
USDA			D	В	D
DOC		В	e e e		В
DOD				C	D
Ed				D	
DOE				D	N. Y.
HHS	*		В	С	D
DHS		C		В	С
HUD					D
DOI		В			C
DOJ				D	D
DOL			D	C	D
State	C				D
DOT				C C	D
Treasury		В	D	D	D
VA				C	C
EPA					C
GSA	D	C		B	В
NASA		D			
NRC					C
NSF					D
OPM				8	D
SBA				В	D
SSA				Ð	D
USAID		<u>C</u>			D

¹ Three agencies—HUD, SBA, and USAID—did not report any planned data center consolidation cost savings

Image: House Oversight and Government Reform Committee

The committee graded agency implementation in four areas: data center consolidation, IT portfolio review savings, incremental development and risk assessment transparency.

Agencies performed best in the area of risk assessment transparency — earning five "A"s and only four "F"s. The category relates to a requirement in FITARA that CIOs assess the risk associated with each major IT investment meeting its goals. Consistently high-risk investments face closer review, according to a document outlining the scorecard process and methodology (pdf).

The report card shows that agencies struggle most with IT portfolio review savings. That review category yielded 16 "F" grades and only one "A."

"FITARA requires the Office of Management and Budget to develop and most agencies to implement a process to review agency IT investment portfolios in order to, among other things, increase efficiency and effectiveness, and identify potential waste and duplication," says the methodology document.

goals, therefore, no grade has been determined for these agencies.

This area measures agencies 'major' investments - defined as those that are spending at least 50% of their planned spending in development (per the Office of Management and Budget, Fiscal Year 2016 Budget of the U.S. Government). NASA, NSF, and USAID did not have any projects that met this definition.

For more:

- read the press release
- <u>download</u> the scorecard results (.pdf)
- download the scorecard backgrounder (.pdf)

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OMB proposes major update to policy for acquiring, managing and securing IT FITARA should reduce IT acquisition risks, save money if implemented effectively, says panel

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2. Triplett to serve as OPM cybersecurity advisor

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InchedIn

The Office of Personnel Management appointed Clifton Triplett as senior cyber and information technology advisor this morning, according to a statement emailed to reporters.

The former management consultant brings "IT organizational transformation experience" to the agency, which is recovering from two major breaches that led to the theft of some 21.5 million individuals' personal information and rocked federal IT.

With Triplett's appointment, the agency took an important step in the implementation of OPM's Cybersecurity Action Report. In addition to adding the cybersecurity leadership post and working more closely with its inspector general, the plan called for security upgrades such as requiring continuous monitoring and multifactor authentication across the OPM enterprise.

"Today's announcement of hiring Clif builds on the growing capacity here at the Office of Personnel Management and underscores our relentless dedication to protecting this agency's valuable IT systems and information," said OPM Acting Director Beth Cobert, who called Triplett's experience building IT infrastructure "top-rated."

In the new position, Triplett will work in parallel with OPM's chief information officer and report directly to Cobert, according to the press release.

"Triplett will serve as a key advocate for advancing the state of enterprise architecture and cybersecurity, including information technology investments, capabilities and services," said the agency in the statement.

On June 4, federal officials said the personally identifiable information of about 4 million current and former federal employees was compromised, but further investigation revealed the extent of a second breach of background investigation files a month later, bringing that total number of people who had their sensitive information, including Social Security numbers, stolen to 21.5 million.

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3. Census puts \$5.2B in savings at risk with slow decisionmaking, says GAO

By Robert Bartley

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The Census Bureau is "running out of time" to make key IT decisions that could save the agency as much as \$5.2 billion in operational expenses, according to the Government Accountability Office.

Those billions in savings are part of a wider effort to redesign the Census Bureau's back-end and field processes for efficiency. However, Carol Cha, GAO's director of IT acquisition management issues, <u>said</u> the agency is falling behind in making expedient choices to prepare for the 2020 census. Cha testified Nov. 3 before the House Oversight and Government Reform subcommittees on government operations and information technology.

"With less than two years remaining until the bureau plans to have all systems and processes for the 2020 census developed and ready for end-to-end testing, it faces challenges that pose significant risk to the 2020 Census program," Cha said. "These include the magnitude of the planned changes to the design of the census, the bureau's prior track record in executing large-scale IT projects, and the current lack of a permanent Chief Information Officer, among others."

Additionally, Cha said the bureau hasn't yet fully decided how to deliver certain IT systems needed to support its redesign, lacks adequate IT workforce management, and has already surpassed some redesign deadlines and pushed them to sometime between 2016 and 2018. Further, she said 49 of the 115 security actions GAO recommended in 2013 to protect census data remained

open, with at least 30 requiring additional action.

According to GAO, the Census Bureau's proposed efforts in comparison to costs if the census was carried out as it was in 2010 could save \$900 million in reengineering address canvassing, \$400 million in optimizing self-response options, \$1.4 billion in using administrative records to cut down on follow up attempts and other redundancies, and \$2.5 billion in reengineering field operations.

Besides redesigning processes for external operations, the Census Bureau is simultaneously undertaking a Census Enterprise Data Collection and Processing, or CEDCAP, initiative to build out systems to allow more flexibility on the back end and in the field.

For example, the bureau is investigating nearly every kind of popular enterprise mobile solution to deploy for data collection during, from Device-as-a-Service to BYOD applications on iOS and Android tablets and smartphones for BYOD use, according to Department of Commerce CIO Steven Cooper, who also testified Tuesday.

However, Cha said a similar project for the 2010 census that, due to problems in testing, budget overruns and schedule failures, ended up seeing the bureau revert to traditional, paper-based processes, costing the agency up to \$3 billion.

The Census Bureau is in a transition from "planning to execution" for the 2020 Census, Cooper said.

"Based on my observations, the Census Bureau is well positioned as compared with prior decades to take advantage of early planning, testing and operational designs. The 2020 Census program is also well positioned to leverage enterprise initiatives to realize significant efficiencies," such as cloud and mobile solutions, Cooper said.

He pointed to the agency's 2020 Census Operational Plan, which it issued last month, as being released three years earlier than one from the 2010 census and an indication of the organization's preparedness. Further, he said the bureau has enlisted the services of the General Service Administration's 18F team for expertise on filling workforce gaps in high-demand tech areas like cloud computing and security.

For more:

- go to the hearing page (includes archived webcast and prepared testimony)

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2020 Census test was essentially worthless, says IG Census Bureau could save big by reusing information government already has, says GAO

Workers may use BYOD for 2020 Census

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4. <u>Alexander: Nation unprepared for cyberattacks that may be triggered by current climate</u>

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | In LinkedIn

Cyber offensive capabilities are increasingly employed by nation state militaries — especially by those involved in today's most sensitive geopolitical spheres. The U.S.-Iran nuclear deal, Russia's involvement in Syria, and unrest in Ukraine and North Korea all present areas of risk that could trigger cyber action, said Retired Gen. Keith Alexander, the former director of the National Security Agency and head of U.S. Cyber Command.

"Those nations who disagree with us are looking at ways to come at us using the full spectrum of power — diplomatic, political, economic, military — and within military, the easiest form for at least Russia and Iran has been cyber," said Alexander during a Nov. 3 hearing before the Senate Armed Services Committee.

"I expect these countries to come back at us with cyberattacks and they can say, 'not our guys,'" Alexander told the committee. "It's an asymmetric way of hitting our country that can cause tremendous damage. And our nation is not ready for these kinds of attacks, across the board."

The United States faces several challenges in terms of building cyberdefenses and deterring cyber conflict, said Peter Singer, strategist and senior fellow at the New America Foundation.

Singer said many of the Defense Department's cyber exercises have focused on validating existing concepts or "making allies feel better about themselves." It also leans too heavily on budget inflexibility as an excuse for inaction in advancing cyber capabilities, when the core problem is often "culture of implementation," he said.

Singer warned that DoD is building new capabilities but "putting some of them into old boxes."

"So, we've built up Cyber Command but we still have a system where the Pentagon's own weapons test found, in their words, significant vulnerabilities in every single major weapons system," said Singer.

Singer said the department should instead look at alternative approaches, such as the model of the Estonian Cyber Defense League.

While Estonia was one of the first examples of a victim of a nation-state cyber attack, from Russia in 2007, it has gone on to have one of the strongest cyber defense programs. Sen. John McCain (R-Ariz.), chairman of the committee, said many in the private sector are resistant to the Estonia model as its information sharing models do not afford industry adequate privacy protections.

Alexander noted that pooling private and public sector resources is a critical part of the solution.

"The commercial industry spends billions if not trillions of dollars each year in cybersecurity alone ... If we have government and industry work together in a way that was meaningful, so that when they applied those resources to help give a more reflective surface in cyber that would tell the government when the

government has to act, you could focus government resources where it's really needed," said Alexander.

For more:

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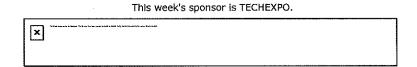
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Today's Top News

1. DISA's changed cloud broker role 1 year later

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | LinkedIn

Nearly one year ago, Defense Department Chief Information Officer Terry Halvorsen signed a memorandum (<u>pdf</u>) that allowed the military services to handle their own acquisition of commercial cloud computing technology rather than requiring the Defense Information Systems Agency to serve as middleman.

In empowering the services, the approach effectively reversed a June 2012 memo from former DoD CIO Teri Takai that required DISA to negotiate relationships between cloud providers and consumers, and manage the use, performance and delivery of cloud services.

"Our role has changed in a number of ways," said Jason Martin, deputy program executive officer for enterprise services at DISA, during a Nov. 2 media roundtable at DISA's Forecast to Industry in Washington, D.C.

In its broker role, DISA is working with mission partners and industry to identify requirements for the second iteration of milCloud — DISA's on-premise cloud solution that leverages the DoD network, which launched as version 1.0 in March 2014.

"Traditionally we've looked at things from a network perspective. We're starting to look at them from a database [perspective]," said Martin. "Given the type of data, some people may be more comfortable with an on-premise, off-premise, commercial facility, defense data center."

Under Halvorsen's December 2014 memo, DISA technically remains

DoD's cloud broker, in that it reviews and approves the security of commercial cloud vendors used by the department.

"We're leveraging more and more commercial capabilities within the department," acknowledged John Hale, chief of enterprise applications at DISA.

The General Services Administration–led Federal Risk and Authorization Management, or <u>FedRAMP</u>, program is the first step commercial cloud services must take in getting a provisional authorization from the Department of Defense through DISA's Cybersecurity Risk Management Executive John Hickey. However, milCloud is not required to have FedRAMP authority to operate as a baseline security requirement.

"We've gotten some pushback from our commercial providers because milCloud 1.0 didn't have to meet the same requirements that they have to meet. And as we shift forward, if more and more work goes to commercial cloud providers, I think you'll see that line come down to a much closer point," said Hale.

Jack Wilmer, DISA's infrastructure development executive, said last year's memo also highlighted the importance of cloud access points, which provide a place for commercial cloud applications to "talk back to DoD networks and get information."

"DISA isn't the only provider of cloud access points. There is no mandate that you have to use DISA, but that is one function that was in that memo in terms of designation that DISA will provide cloud access points to be able to connect department networks to the commercial cloud," he said.

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New survey shows cloud acquisition basics challenge DoD
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2. <u>Federal government trails state, local and city in IoT adoption, says IDC</u>

By Molly Bernhart Walker©Comment | Forward | Twitter | Facebook | InLinkedIn

State, local and city governments are more mature adopters of Internet of Things technology than the federal government, according to a new report from market research firm IDC Government Insights.

"The IoT is one of the few areas where local government spending leads," write report authors Ruthbea Yesner Clarke and Shawn McCarthy. "In other areas (say general software or hardware consumption), federal civilian and DoD spending tend to be significantly higher than local."

Many IoT use cases, such as traffic lights and toll plazas, have a local element, they say. But even though it's not as far along, the expected trajectory of IoT technology is significant, especially for the Defense Department.

Federal civilian and DoD IoT spending is expected to see a compound annual growth rate of 17.1 percent from 2013 to 2018, predicts IDC. For fiscal 2016, IDC expects federal civilian agencies and departments to spend \$3.5 million and the DoD to spend \$5.4 million on IoT technology hardware, software, IT services and connectivity.

From a growth rate perspective, connectivity spending will lead, driven in part by the proliferation of security- and energy-related sensors in and around government buildings, finds the report.

A Washington, D.C.-based think tank recently said DoD is "falling behind" in its deployment of IoT technologies. In <u>a September report</u>, the Center for Strategic and International Studies found gaps in the department's current and planned use of IoT systems.

The current approach is focused on combat applications, specifically the millions of sensors across a range of platforms that provide situational awareness, but IoT has many noncombat applications as well, such as for tracking shipments and managing inventories, said report authors.

For more:

 download "Perspective: Internet of Things Forecast by Level of Government – Substantial Growth Through 2018" (purchase required)

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More military investment in Internet of Things can help warfighter, save on costs, report finds

"Internet of Postal Things" could boost service, cut costs, generate

new business, USPS IG says Utilities, transportation among target markets for new IoT cloud service

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3. Excess unobligated program balances were helpful during the 2013 shutdown, says GAO

By Moily Bernhart Walker©<u>Comment</u> | <u>Forward</u> | <u>Twitter</u> | **G**Facebook | **M**LinkedIn

While auditors may typically frown on agencies' unobligated funds exceeding balances, the practice is sometimes justifiable, and it was particularly helpful during the 2013 government shutdown, <u>says</u> an Oct. 30 Government Accountability Office report.

In a report that examined how agencies managed and used unobligated balances from fiscal 2012 through 2014 — a period that included sequestration and a 16-day federal government shutdown in 2013 — GAO found select agencies generally ensured the effective use of program resources.

Officials overseeing eight accounts from NASA and the Commerce, Energy and State departments had a process for managing unobligated balances year round, tracked the appropriation year for those accounts with multiyear budget authority and, where appropriate, justified the need to retain unobligated balances to sustain agency operations and manage financial risk.

GAO also found that by exceeding their balance target, some agencies also dulled the pain of sequestration and shutdown.

Half of the accounts reviewed used unobligated balances to mitigate the effects of the 2013 sequestration, said the report. In six of the eight accounts, agencies used unobligated balances to fund operations during the October 2013 shutdown.

"Given the significant events during the last two years — sequestration and the government shutdown — and the potential for budget uncertainties in the future, effective management of unobligated balances is critical for agencies to ensure the most efficient use of resources and to effectively respond to budget uncertainties," wrote report authors.

"Understanding the justification for or impact of unobligated balances requires a close look at individual accounts and agencies, and how they manage unobligated balances," they add.

While GAO generally supported select agencies management of unobligated funds, two accounts had room for improvement.

In fiscal 2014, the balance for one category of an Energy Department Western Area Power Administration account exceeded its target by approximately \$40 million. In the same year, a State Department Diplomatic and Consular Programs account blew past its goal to carryover about 25 percent of projected program expenditures to the next year by approximately \$440 million.

Both departments concurred with GAO recommendations that they finalize and implement strategies to better manage unobligated balances.

For more:

- download the report, GAO-16-26 (.pdf)

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4. <u>Army app streamlines DoD research lab information</u>

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InLinkedIn

A new mobile application built by the U.S. Army Armament Research, Development and Engineering Center brings together previously disconnected information from the Defense Department's research laboratories.

The app, which is available for iOS and Android for anyone to download contains facts about each lab and syndicates an RSS news feed from all labs, according to an Oct. 27 press release. Previously the news articles were only disseminated through a downloadable PDF or print.

Through a web application that complements the public-facing mobile app, information is far easier for labs to update, said Dr. Bernard Reger, associate for business planning and development for the Armament Software Engineering Center.

"Giving out information that's five years old can be dangerous in some cases and just not useful," said Reger.

"As a lab grows into new research area, that information will be available. The labs control the information and is cleared for public release," said Reger in the press release.

The information shared through the app will likely help academic and other federal researchers learn from and connect with DoD resources.

The application has the added benefit of providing a template for future apps with a similar function, rather than being a "one-time shot," said Reger.

"This is a platform we've developed. If another organization wants to have an electronic Smartbook of their capabilities, their facilities or their projects — we'll be able to use that platform to create something for them," said Reger.

For more:

- read the Army press release

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Recent federal breaches reinforce the growing importance of protecting federal networks and the assets they house. Application programming interfaces, or APIs, have become a major part of that federal digital landscape. In this eBook, FierceGovernmentIT will explore how APIs are being used as well as API governance challenges, security considerations and management best practices. **Download today!**

SPOTLIGHT ON... HHS seeks an entrepreneur in residence to lead disease surveillance system

The Health and Human Services Department is looking for someone with experience "building scalable infrastructure for data storage, exchange and analysis" to overhaul its disease surveillance system. According to an Oct. 26 post on the HHS Idea Lab blog, local, state

and federal agencies are sharing disease information through legacy systems, and an entrepreneur-in-residence will develop a more robust data collection and exchange platform. Read more about the program and the job opening, <u>here</u>.

- > Obama signs two-year budget deal. Article (USA Today)
- > Pentagon's Joint Information Environment 'picking up steam.' <u>Article</u> (*Nextgov*)
- > Postal Service advised to turn competitors into partners. <u>Article</u> (*FedTimes*)
- > NSF gives up to \$15M for 'big data brain trust.' Article (FedScoop)
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Cloud computing outreach and education have improved and FedRAMP is in full swing, but findings show that agencies still haven't totally embraced cloud computing. In this report, FierceGovernmentIT shares recent cloud computing survey results and federal IT experts decipher the findings. **Download today!**

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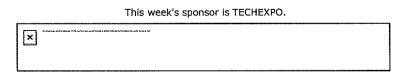
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Today's Top News

1. New OMB cybersecurity plan plots quick deadlines for agencies

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | MulinkedIn

The Office of Management and Budget dropped several new cybersecurity mandates for federal agencies and departments as part of guidance issued late Friday.

With a focus on identifying and protecting sensitive information, rapid response to intrusions, improved recovery, and workforce and acquisition policies that support cybersecurity, chief information officers will have to move quickly to meet OMB deadlines.

The memorandum (<u>pdf</u>), issued by OMB Director Shaun Donovan Oct. 30, comes more than 100 days after the <u>conclusion of a governmentwide "cybersecurity sprint"</u> launched in response to serious data breaches at the Office of Personnel Management.

The first deadline under the new Cybersecurity Strategy and Implementation Plan, or CSIP, comes in less than two weeks. By Nov. 13 agencies are required to identify and report all high-value assets housed in IT systems, and by Dec. 31 they are required to report all cyber-related positions to OPM.

Also, by the end of the calendar year, the Federal CIO Council will establish a subcommittee on the rapid deployment of emerging technology, and the Homeland Security Department will make EINSTEIN 3A protections available to agencies not currently shielded by E3A providers. EINSTEIN is something of a cyber traffic

monitoring system run by DHS to protect the entire .gov domain.

In addition to EINSTEIN's protection of all government networks, the plan requires that OMB release a plan for implementing cybersecurity shared services by Jan. 31, 2016.

The next flight of deadlines under the plan don't come until Spring 2016.

By the end of March, OMB will issue an updated to M-07-16 (pdf), a 2007 mandate that directed agencies to protect personally identifiable information. Then in April, the plan requires the General Services Administration to deliver an incident response contract vehicle and for the CIO Council to conclude a federal cyber workforce study.

The final deadline under the plan comes at the end of fiscal 2016, with a requirement that DHS deliver Continuous Diagnostics and Monitoring Phase 2 capabilities to participating agencies.

Even prior to the release of this guidance, the federal government had been making headway in bolstering its IT security.

As part of actions required by the sprint, agencies increased their use of strong authentication to 80 percent — an almost 40 percent increase just this year, <u>said</u> Federal CIO Tony Scott in an Oct. 30 White House blog post.

"As cyber threats become increasingly sophisticated and persistent, so must our actions to tackle them," said Scott.

"CSIP directs a series of actions to improve capabilities for identifying and detecting vulnerabilities and threats, enhance protections of government assets and information, and further develop robust response and recovery capabilities to ensure readiness and resilience when incidents inevitably occur," he said.

For more:

- download the guidance, M-16-03 (.pdf)
- read the White House blog post

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2. DISA zeroing in on virtualization

By Molly Bernhart Walker

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Lt. Gen. Alan Lynn was only sworn in as director of the Defense Information Systems Agency one month ago, but he has already made his priorities clear. Virtualization will be a major focus for the agency moving forward, said Alfred Rivera, director of DISA's development and business center.

DISA is trying to help the Defense Department move away from the workstations that are in place right now, said Rivera Nov. 2, during the agency's Forecast to Industry event in Washington, D.C.

The vision aligns with the agency's strategic planning guidance over the last couple of years, which has focused on moving DoD toward a mobile environment and away from desktop-bound applications, including the collaboration and cyber tools currently running in DISA's environment, said Rivera.

One of the acquisition opportunities highlighted by Rivera is the Virtual Solution Joint Enterprise License Agreement. A request for quotation for a single-award, full and open contract will be issued in the second quarter of fiscal 2016 with an award planned for the third quarter of fiscal 2016. The contract winner will be tasked with maintaining existing a DoD-wide virtual platform and expanding virtualization environments.

"We're looking at extending our virtualization platform. As more and more of our partners move toward virtualized architectures and virtualized solutions, we see the benefit of trying to capitalize and get economies of scale on a virtual platform basis," said Rivera.

"Right now, we're assessing [what the services'] baselines for virtualization look like and where they're going to go," he said.

In a press availability following his public remarks, Rivera said DISA is working to more rapidly stand up virtual private networks. By standing up a "data center virtualization environment," DISA will

allow services to quickly turn on communities of interest as needed when the combatant commands demand it.

Right now DISA is working with European Command and Central Command to build the requirements to implement such a capability.

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3. In connecting public safety, FirstNet also innovates on LTE - and eyes 5G

By Nicole Blanchard

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As FirstNet works to release its final Request for Proposals by the end of this year, attention will soon turn to how FirstNet plans to roll out its LTE network for U.S. public-safety workers, and how it will keep that network up to date with changing standards and devices.

According to CTO Jeff Bratcher, FirstNet's network will be on-board with the latest LTE innovations from the outset, accommodating present standards and anticipating future innovations from the nation's commercial carriers. Keeping pace will be necessary as FirstNet -- created to solve the communication interoperability problems among public-safety officials first uncovered during the Sept. 11, 2001, terrorist attacks -- tries to ensure a fast, reliable network for emergency services.

"Commercial [wireless carriers] are using Release 9 and 10" of the 3GPP's LTE standard, said Bratcher, which means that FirstNet will probably use the same standards when it launches its network. However, he said that specifics won't be available until FirstNet chooses a commercial carrier partner sometime in 2016.

By using the same 3GPP Release 9 and 10 LTE standards as commercial carriers like AT&T, Verizon and Sprint and T-Mobile, FirstNet will be able to cash in on the same equipment that has already been developed for commercial wireless LTE networks. Further, FirstNet is expected to partner with a commercial wireless carrier to monetize and build out its network, and analysts are pointing to Verizon as FirstNet's most likely partner, thanks to Verizon's national reach and its vast 700 MHz spectrum holdings.

In the meantime, Bratcher said, FirstNet is doing everything it can to stay abreast of fluctuating standards, especially as LTE continues to evolve. FirstNet is keeping tabs on the 3GPP and has a standards team working closely with the standards body to make sure FirstNet is "plugged in" and that the 3GPP is aware of FirstNet's needs and requirements.

Once FirstNet releases its RFP, contractors will then be able to submit proposals to build the organization's nationwide, \$7 billion, 700 MHz LTE network that police, firefighters and other first responders will be able to use to communicate with each other and others. The result will hopefully be a state-of-the-art nationwide wireless network that will support text, voice and video communications among all emergency responders.

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4. <u>FAA names Amazon, Walmart and others for drone</u> registration task force

By Alyssa Huntley

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The Federal Aviation Administration <u>announced</u> Thursday the members of the Unmanned Aircraft Systems Registration Task Force, <u>which will deliver recommendations to the FAA for a drone operator registration process due by Nov. 20</u>.

While members must be invited and serve on a volunteer basis, there's no doubt almost every member has something to contribute to those in charge of drone regulation.

The task force will work with the FAA and Department of Transportation to decide which aircrafts are a low enough safety risk to exempt them from registration, an earlier announcement explained. They'll also work on a streamlined registration system to make the process less burdensome for commercial drone operators and will make safety recommendations as they deem appropriate.

"Registering unmanned aircraft will help build a culture of accountability and responsibility, especially with new users who have no experience operating in the U.S. aviation system," said U.S. Transportation Secretary Anthony Foxx, in a statement. "It will help protect public safety in the air and on the ground."

You can find the full list of task force members in the <u>FAA</u> announcement.

Among the members are Sean Cassidy of Amazon Prime Air and Thomas Head of Walmart. These two picks make perfect sense. Among retailers in the U.S., these two are the ones pushing hardest to get drone rules implemented so they can begin drone delivery

services. Amazon's FAA exemption saga has only just come to an end, while Walmart's is just the beginning, and it makes perfect sense why folks from Amazon and Walmart would volunteer their time in the drone space.

From a consumer standpoint, there are representatives from Amazon Retail, Best Buy and the Consumer Electronics Association. Hobbyist's drone use is a big part of the market, so it will be important to them that these smaller drones remain exempt from a harsh registration process. After all, the harder it is to actually use something you've purchased, the less likely you are to buy it in the first place.

From the drone manufacturing community, a few other names that stick out are Brendan Schulman of DJI and Tyler Collins of PrecisionHawk. Drone regulations will have a huge impact on these folks. They'll also prove a huge asset to the task force, considering their deep understanding of the risks that come along with the drones they build.

Of course, the task force comes with its fair share of folks who may be hoping for the strictest regulations possible. Chuck Hogeman and Randy Kenagy of the Air Line Pilots Association and Mike Fergus of the International Association of Chiefs of Police could be looking to have drones well regulated, which would mean strict registration requirements.

Given the number of times drones <u>have proven themselves a risk</u> <u>not only to airplanes</u>, but also to those with two feet on the ground, it wouldn't be surprising to hear these folks fighting for strong registration requirements. After all, having drones registered would make easier work of finding those <u>responsible for flying in no-fly zones</u> and holding them responsible for any problems they may have caused.

Still, they'll be going up against the likes of Brian Wynne of the Association of Unmanned Vehicle Systems International, Gregory McNeal of the Small UAV Coalition and Brandon Declet of Measure (which happens to currently run the largest fleet of drones in the United States).

For more:

- read the full FAA announcement

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5. Organization, culture and resources: Making it work for records management

By Chris Nehls

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Federal departments and agencies are transforming how they gather and archive records for the digital age. By storing records in a permanent electronic format, they are more accessible to federal workers and the general public alike. Accordingly, electronic records are a key part of the Obama administration's open government directive, which the president issued on his first day in office.

But the road to true electronic record management has been bumpy. It's placed new burdens on federal personnel and caused confusion over archiving procedures.

Successful implementation of the Obama administration's 2012 records management directive will require not only technological solutions, but deft managerial skill and the willingness of federal employees to adopt new procedures.

REMAINING TARGETS FOR ELECTRONIC RECORD MANAGEMENT

In August 2012, then–Office of Management and Budget Acting Director Jeffrey Zients and Archivist of the United States David Ferriero announced (pdf) that all federal agencies should be working toward two key record management goals:

- Managing all of their permanent electronic records in an electronic format by the end of 2019 for eventual transfer to the National Archives and Records Administration, or NARA.
- Managing both temporary and permanent email records in an electronic format by the end of 2016.

While three-quarters of <u>surveyed</u> federal government records and information managers thought "modern, high-quality records and information management" would come out of the process, nearly half expressed doubt that directive target deadlines were realistic and obtainable.

The task of meeting those targets has fallen to Senior Agency Officials, or SAOs — the senior-level executives designated to oversee reviews of records management programs. Over the last several years, these officers have identified permanent records that should be transferred to NARA, developed management training programs and scheduled records transfers when possible.

With this managerial structure in place, federal agencies now have to pick up the pace of bringing their records management strategies into operation.

AUTOMATION: A SOLUTION BUT NOT A PANACEA

Because of the sheer volume of documents that agencies produce — especially in the age of email — the accuracy and speed of records management suffers the more employees have to open, categorize and file individual items. To ensure agencies meet their implementation goals, the 2012 White House directive urged NARA to assist agencies and stakeholders in automating their records management. In a September 2014 automation plan (pdf), NARA noted three positives for doing so:

- 1. The capture and management of records is more consistent, ensuring documents are preserved.
- 2. Management processes can be scaled to handle varying volumes of information.
- 3. Staff members are freed up to pursue the agency's mission.

Some agencies already have implemented automated records management systems. For example, the Government Accountability Office gathers and stores permanent e-records in its DM/ERMS system through automated retention rules and routines. Its system even pulls a copy of the email for storage as it arrives in an executive committee member's inbox.

But, as the NARA plan cautions, automation alone is not enough. Even approaches that use the most capable records management applications "will only succeed in situations where records management principles themselves are well-defined and understood and clear records schedules are in place."

Even if an agency uses software to manage document delivery to the National Archives, "the tasks of capture and categorization often remain the responsibility of the end user." Mistakes by humans in setting up automated tasks can reverberate for decades.

All types of automated record management systems carry some risk. Depending on their methods and settings, they may fail to capture permanent records or clutter databases by capturing too many low-value records. In its September 2014 management plan (pdf), NARA provides guidance for agencies in choosing an automated system and explores five different approaches to automation, including their unique risks.

AUTOMATION ON A SHOESTRING

In an era of extremely tight budgets, many federal agencies may not have the resources to invest in entirely new records management applications.

Budgetary pressure was overwhelmingly the most reported challenge facing SAOs in NARA's most recent survey of their

performance.

In a separate survey (<u>pdf</u>) conducted around the same time, 51 percent of records managers said dedicated funding would be the biggest help to achieving directive deadlines. Just 37 percent said they had adequate budgetary resources to meet the directive's goals.

NARA suggests that records managers consult the vendors of existing agency computing platforms to make sure that all automation features are installed, up-to-date and fully operational.

THE CAPSTONE APPROACH TO AUTOMATION

Records of emails, instant messages and similar electronic communications are the most appealing targets for records management automation. Most federal agencies, however, struggle to automate its archiving and deletion.

A survey by Cohasset Associates of federal managers in 2014 revealed that only 39 percent of agencies had fully or partially automated the deletion of nonessential emails and instant messages. "In view of the maturity of email management tools, this low level of automation is surprising, identifying another opportunity for modernization," the report said.

In August 2013, NARA offered agencies one possible approach to email record management, which it called the "Capstone" approach. Capstone allows offices to categorize emails as permanent based on the position or work of the account owner. The agency can schedule delivery for emails from such accounts with NARA without any additional categorization work. Remaining emails can be captured and labeled as temporary records and be preserved by the agency as it needs them.

Even approaches that use the most capable records management applications "will only succeed in situations where records management principles themselves are well-defined and clear records schedules are in place," the National Archives and Records Administration said.

NARA <u>has created a resource page</u>, including a checklist of technical requirements, for the approach.

THE IMPORTANCE OF INTERNAL CONTROLS

But training and policy manuals are not enough. Agency executives also have to establish internal controls or ways of reasonably assuring that employees are achieving objectives and maintaining management standards. Internal controls can help prevent

employees from prematurely deleting emails or cataloging documents incorrectly.

Agencies should run regular audits of their records management to ensure compliance with federal regulations and internal procedures. Three-quarters of agencies reported performing routine evaluations, inspections or audits in NARA's 2013 survey of SAOs.

Auditing email management remains a blind spot, however, as only about a third of agencies reported performing one. NARA found that less than 70 percent of staff and contractors received training on mail management standards, and that training was often not mandatory.

Cohasset Associates suggests that agencies make records management audits part of a broader culture of compliance with other good-governance requirements like ethics, risk management and privacy.

"Information Governance (IG) is the fulcrum on which all of these disciplines tilt," Cohasset Associates wrote in its 2014 information governance benchmarking survey. Its authors urge records managers to "gain knowledge of key compliance and risk management operations, and then tighten the integration across all information governance disciplines."

Alarmingly, Cohasset's survey of records managers found that only 6 percent of agencies had developed mature metrics to guide program assessment and reveal avenues for improvement. Without proper metrics, agencies will struggle to know whether they are on target to hit directive goals on time.

Managers should develop measurements for direct actions like the number of users trained and the amount of information retained. They should also create derived measures like cost savings and employee awareness of proper procedures. These measurements should be taken repeatedly throughout the implementation of electronic records management.

COORDINATE AND COLLABORATE

Although the 2012 White House directive put the lion's share of management responsibility in the hands of SAOs, achieving its target goals will require the input and participation of employees at all personnel levels within agencies.

Training all staff on records management procedures is the first step in that process. Unfortunately, SAOs reported that less 70 percent of senior staff received records management training in 2013. Only a quarter of all employees, meanwhile, completed training every two years, according to the Cohasset survey.

When surveyed in 2013, 44 percent of records managers said that better guidance on employee training would provide the most help

in meeting directive goals. Agencies should redouble efforts to design and implement regular training to make managers' lives easier. This training should reinforce the principle that electronic records management practices ultimately support the agency's mission by making information more organized and accessible to all employees.

Records managers should also explore greater collaboration with other stakeholders inside their agencies. It's especially important that IT staff be actively involved in records management planning.

Just 55 percent of records managers reported that IT staffs were actively engaged in supporting their work in the Cohasset survey. Without IT having a voice at the table, "new content will be created and managed without information lifecycle controls," report authors warn, "increasing the mass of unattended information in the future."

Records managers also need to consider reaching out to their peers in other agencies for guidance and advice. This type of networking is necessary in part because NARA has struggled in its guidance and training efforts. Only 42 percent of records managers polled by MeriTalk said they thought the direction and support they receive from the agency was adequate.

Records managers have created a collaboration platform of their own. The Federal Records Officer Network, or FRON, meets monthly at different federal agencies to discuss hot topics among records managers. It also has a website that includes discussion boards, a repository for policies and tools, and document templates for sharing.

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NARA re-evaluating deadline for agency email records management systems, official says

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Today's Top News

1. Marine Corps willing to trade capacity for cyber capability, says Walsh

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | CinkedIn

The Marine Corps will review its force structure over the next few months with an eye toward overarching investment areas rather than traditional stovepipes, <u>said</u> Lt. Gen. Robert Walsh, deputy commandant for combat development and integration and commanding general of the Marine Corps Combat Development Command.

Walsh said the service will likely consider taking a "risk in capacity" so that it can grow capability in emerging areas, such as cyber operations.

"An infantry battalion may look a little bit smaller in some ways but you may add more cyber information warfare capabilities," said Walsh during an Oct. 28 event hosted by the Center for Strategic and International Studies in Washington, D.C.

When the Marine Corps considers how the force of the future will operate, "it's not all about small little company-level landing teams being able to distribute, it's much larger than how's the battle force going to operate and make sure our C2 systems that the Marines have are communicating with the ships we have out there, which is a real challenge for us," he said.

Information warfare, cyber operations, emerging space capabilities and ambiguous warfare will be a major focus for the Marine Corps

as it assesses its future priorities, said Walsh.

Unmanned aerial systems are part of that environment. But, as with all emerging technology, it's important to balance the priorities of moving quickly to adopt and integrating the technology with the broader network, he told attendees.

The service is looking for all new technology to be "platforms and payloads ... that's what we're looking for: open architecture, plug and play being able to be digitally interconnected with everything that we have," said Walsh.

For more:

- watch an archived webcast of the event

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2. NTIA unveils Internet usage data hub

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | MilinkedIn

The National Telecommunications and Information Administration has launched an online source for locating statistics and charting trends in computer and Internet use.

The new platform, called <u>Data Central</u>, is part of a larger revamp of the agency's Computer and Internet Use Supplement to the Current Population Survey, said John Morris, associate administrator of

NTIA's office of policy analysis and development.

That survey, which is administered to more than 1.3 million people in partnership with the Census Bureau, has charted the explosion of Internet use and computing technology over the last 20 years.

"We are significantly simplifying the task of gathering specific statistics of interest with our new <u>Data Explorer tool</u>," <u>wrote</u> Morris in an Oct. 28 blog post.

The Data Explorer tool produces data visualizations based on the data presented in the repository. Calculations made on the data sets are also available in an <u>Analyze Table</u> spreadsheet that NTIA published as part of the update to its survey and data.

In addition to just-released results from the July 2013 data collect, Data Central also includes raw data sets that date back to 1994 that are now available in updated formats.

The latest data from the survey show an increase in mobile online usage and decrease in desktop online usage. From July 2011 to July 2013 online mobile usage increased by 18 percentage points, but desktop Internet usage declined slightly — dipping 5 percentage points — over the same period.

For more:

- read the blog post
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3. GSA highlights role of challenges in driving innovation, launches mentor program

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | LinkedIn

Agencies should interpret an innovation strategy issued by the White House last week as a continued endorsement of the use of federal competitions, said Kelly Olson, senior innovation advisor and director of Challenge.gov.

The strategy, which the White House unveiled Oct. 21, emphasizes the importance of federal incentive prize and challenge competitions, said Olson in an Oct. 29 post to the General Services

Administration's DigitalGov Blog.

"Prizes allow agencies to increase cost-effectiveness to maximize the return on taxpayer dollars, with competitor investments often exceeding the prize purse by an order of magnitude," said the White House strategy document (pdf).

Because challenges allow agencies to only pay for success and tap a broader pool of partners, open innovation and public participation have grown in popularity. More than 450 challenges are now listed on Challenge.gov, and more than \$150 million has been awarded in prizes.

Olson said GSA wants to encourage the use of challenges even further through mentorship.

The agency <u>announced</u> Oct. 22 a mentorship program for challenges and prizes.

"A stable of 20 experts are making themselves available to anyone seeking advice on planning and executing open competitions," wrote Olson.

"The mentorship program will help make challenges and prizes a reality across the federal government, no matter the size of the agency or extent of the problem it seeks to solve," she added.

There's also a new, <u>online toolkit</u> that will guide agencies through the process of running a challenge.

For more:

- read the DigitalGov blog post

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4. Halvorsen says 'Cyber Pearl Harbor' probable

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InLinkedIn

The idea of a catastrophic IT security event has captured cyber policy wonks' imaginations through the term "Cyber Pearl Harbor." And while some have railed against the term's use as fear mongering, the Defense Department's IT lead thinks such an event is not only plausible, but probable.

"Is there the potential for a Cyber Pearl Harbor? Probably," said DoD Chief Information Officer Terry Halvorsen during an Oct. 29 breakfast discussion in Washington, D.C., hosted by *Christian Science Monitor*.

"I think it depends on what scale of engagement you're talking about," he said.

While not quite as spectacular, Halvorsen said the normal, everyday state of cyber is also alarming.

"Phase zero, I think, there will be persistent cyber probing. They'll be persistent testing of cyber threat technology. I think that is something we're going to live with," he said during the event.

Completely secure networks are possible, said Halvorsen; however, they would require the department to unplug everything and disconnect in a way that would make getting work done impossible. In that way, cybersecurity is really risk management.

"This is a balance, you know. It always is a balance and it's a balance across time, money, mission, threat, and it's getting that right," he said.

Much of DoD's work relies on industry, and the department has benefited from private sector investment in cybersecurity. Halvorsen added that American industry has a history of responding well to DoD's needs.

"We have industry with us on the forward edge," said Halvorsen.

For more:

- watch video excerpts from his remarks here, here and here

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<u>DoD hopes better cybersecurity automation will weed out 'basic players'</u>

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5. Cyber Support to Corps and Below to join upcoming training rotation

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InlinkedIn

An Army pilot program called the Cyber Support to Corps and Below will take an important step forward in demonstrating cyber effects at corps and echelons below. The vision of now-retired Army Chief of Staff Gen. Ray Odierno was to use cyber techniques to

accomplish missions through unit training at combat training centers.

Army's cyber forces will join tactical units at the Joint Readiness Training Center on Fort Polk, Louisiana, to participate in an upcoming training rotation for the $\mathbf{1}^{\text{st}}$ Brigade Combat Team, 82^{nd} Airborne Division, according to an announcement from the service.

"Cyber capabilities should also extend and be executed at the tactical edge," said Lt. Gen. Edward Cardon, commanding general of the U.S. Army Cyber Command and Second Army, in recent congressional testimony.

Through major exercises and training center rotations, the Army will be better quipped to protect and defend against cyber attacks, and operate in a degrade cyber space environment, said Cardon.

For the upcoming rotation — the second CSCB has participated in — soldiers from Fort Gordon, Georgia's Cyber Protection Brigade will support the 1-82nd's "organic cyber defense force," said the Army release.

The CSCB plans to also pilot combat training center-based programs that focus on Network Integration Evaluation and Army Warfighter Assessment, said the announcement.

"In training, repetition leads to confidence and confidence leads to true mastery," said Maj. Gen. Charlie Flynn, commanding general of the 25th Infantry Division. "At the tactical level, we must get more repetitions and develop our confidence in the cyber domain by applying these unique capabilities."

For more:

- read the press release

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SPOTLIGHT ON... VA awards \$5M precision medicine grant

Precision medicine is a major priority for the Obama administration, but until now much of the research into how genetics and behavior can better guide clinicians to more effective treatments has been executed by Health and Human Services Department agencies.

Through a new \$5 million grant, the Veterans Affairs Department is joining the effort. According to an Indiana University press release, the school will partner with the Regenstrief Institute for the multisite Precision Monitoring program. Called PRIS-M, the program will "use existing VA electronic health data to implement actionable, personalized, timely monitoring to generate data to transform care quality and outcomes," says IU.

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Today's Top News

1. From agile learning to challenges, OFPP's new IT acquisition cadre could have outsized impact

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | MulnkedIn

Last week, 30 acquisition professionals kicked off a six-month journey to learn how to better buy IT products and services. And while the goal of the Digital Service Contracting Professional Training and Development Program sounds simple, the transformation the Office of Federal Procurement Policy hopes to drive with it represents a major cultural shift.

The call to improve IT procurement has been a steady drumbeat from the Obama administration, which sees it as an area ripe for improved service delivery and cost savings. And while the desire to transform is stronger than ever, IT program managers and contracting officers find actual implementation to be a challenge.

The core problem is that traditional government acquisition isn't well suited to the rapid pace of technological innovation, said Timothy Cooke, president and chief executive of Arlington, Virginia-based ASI Government.

"So, you have CIOs saying 'agile, agile, agile' and a procurement team that may not know how to translate that into a procurement," he said.

ASI Government, partnering with Fairfax, Virginia-based ICF International, is delivering the innovative training program.

Just how "out of the box" is their approach? Well, Cooke said they don't even have a curriculum yet.

Not only will the program teach participants about agile, it actually

employs agile methods to develop learning paths that adapt in near real-time to what people are experiencing in class, said Cooke. The class will also bring their own, real-world acquisition challenges to the learning environment, he said.

"There's a portal and a feedback process that is really central to the curriculum. We're not actually sure where it's going to go yet, but we have an approach that we think will tailor it to the needs of those 30 folks," he said.

Once the program has concluded, OFPP expects graduates to drive change at their home agencies and evangelize new techniques and processes for IT acquisition.

Cooke said ASI and ICF developed a creative program because it was born from a creative acquisition process.

"The process is what's most impressive about this, how the government went about this," said Cooke.

In May, OFPP launched a \$360,000 challenge for the program. From there, three finalists received funds to expand their initial responses, deliver oral presentations to judges and instruct a one-hour classroom session.

"It's a very creative program by design and the challenge was structured in a way that allowed us to really show our creativity and [differentiate ourselves]," said Cooke.

Challenges are an ideal tool for government to encourage innovation, he said. It's very difficult to show creativity in a traditional request for proposal environment, he said.

"The process itself was a really powerful experience for us," said Cooke.

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2. Role of IPO questioned in DoD-VA EHR interoperability hearing

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InLinkedIn

An Interagency Program Office, which was established by the Defense and Veterans Affairs departments under a provision in the National Defense Authorization Act of 2008, was designed to be "a single point of accountability" for the department's health record interoperability efforts, but given the current state of the program lawmakers are right to question its very existence, said a Government Accountability Office official.

"It is reasonable that one would question its current responsibilities and whether it should exist," said Valerie Melvin, director of information management and technology resources issues at GAO.

"The position of the office has not been specific to, or as connected to, the overall function for which it was assigned. We have seen it having a limited role in the department's current efforts over time," said Melvin during an Oct. 27 joint hearing of the House Oversight and Government Reform subcommittee on information technology and House Veterans Affairs Committee.

Under the National Defense Authorization Act of 2014, DoD and VA are required to deploy modernized electronic health records that employ full, standards-based interoperability by Dec. 31, 2016. In reality, the two departments likely won't reach that goal until after 2018, according to GAO.

The two departments dropped plans to develop a joint, or "integrated," EHR that would seamlessly service members and veterans in 2013. Instead, VA set out to "evolve" its Veterans Health Information Systems and Technology Architecture, known as VistA, and DoD decided it would acquire a commercial EHR solution. In late July the Defense Health Agency awarded a \$4.3 billion contract that will likely incur a lifecycle cost of upwards of \$9 billion, to a team led by Leidos and Cerner for the Defense Healthcare Management System Modernization initiative.

The IPO's primary responsibility is to develop or identify national standards that the two departments can adhere to. The 2014 NDAA also required that all VistA data was to be in a compliant format established by the Office of the National Coordinator for Health IT.

"At this point we have not certified to the 2014 requirement — the Oct. 1, 2014 requirement," said Brian Burns, deputy director of the

DoD/VA IPO during the hearing.

Burns said the IPO has identified 25 domains for its data mapping efforts. The first seven — the most frequently used or high-volume — have most of the data mapping complete.

"At this point we have data maps for most of the sets, we have partial overlapping for most of the sets at this point," said Burns.

Christopher Miller, program executive officer of the Defense Healthcare Management Systems, said the IPO now has a full time representative from DoD.

"We do have a dedicated IPO, Dr. Lauren Thompson. She reported aboard in May," said Miller. "For some time I was wearing two hats but I'm no longer wearing two hats. I think that's reflective of our commitment to the IPO and the work that they do."

The IPO is critical for providing technical leadership to make sure that the ONC standards apply and identifying where refined standards and improvements may be needed, said Miller.

While both departments clearly have their own culture and are pursuing different solutions, Melvin reiterated that there is a "lack of joint strategic planning on the part of the two departments."

For more:

- go to the hearing page (includes an archived webcast and prepared testimony)

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3. <u>GAO finds DoD's IT component supply chain</u> strategy lacking

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | LinkedIn

Bringing mission-critical and cutting-edge technology to the warfighter is dependent in part on the Defense Department's ability to use microelectronics, but the Government Accountability Office says the DoD needs to plan for the possibility that access to trusted microelectronics may be limited in the future.

A decade ago, the Defense Science Board said that DoD lacked an overall vision and strategy for obtaining microelectronics in the

future, and not much has changed since, according to Marie Mak, GAO's director of acquisition and sourcing management.

Increased specialization and industry consolidation has made the production of leading-edge technologies more expensive, said Mak in prepared testimony (<u>pdf</u>) delivered Oct. 28 before the House Armed Services subcommittee on oversight and investigations.

In addition to cost concerns, DoD has fewer domestic sources to pick from, and has little influence on the commercial market because "DoD's needs for microelectronics are low-volume, unique, and, in some cases, for technologies for which there is no commercial demand," said Mak.

The DoD stood up its trusted supplier program — initially called the Trusted Foundry Program — in 2004 where contracts with IBM Corporation allowed components to be produced without foreign sources in the IT supply chain. IBM created a pool of "trusted suppliers," said Mak.

"However, none, other than IBM, offered leading-edge technologies that met DOD's needs," she said.

One year ago, IBM, which had been DoD's sole-source of leadingedge technologies for over a decade, transferred microelectronic fabrication to a foreign-owned entity.

"By not addressing alternative options when the Defense Science Board first raised them as urgent issues and by relying on a sole source supplier for leading-edge microelectronics, DOD now faces some difficult decisions with potentially significant cost and schedule impacts to programs that rely on these technologies, as well as national security implications," wrote Mak.

For more:

- <u>download</u> the prepared testimony (.pdf)
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4. SIGAR questions USAID health facilities data

Information on a seven-year health program the U.S. Agency for International Development conducted in Afghanistan is inaccurate,

according to the Office of the Special Inspector General for Afghanistan Reconstruction, or SIGAR.

SIGAR's site inspections to verify the accuracy of USAID location data and operating conditions at 23 public health facilities in Herat Province, Afghanistan, that were part of USAID's \$259.6 million Partnership Contracts for Health, or PCH, program revealed "substantial inaccuracies in the geospatial coordinates" for the facilities and "inadequate or sporadic access to electricity, water and needed pharmaceuticals," according to an Oct. 20 letter (pdf) to USAID officials from John Sopko, special inspector general.

The reason this is a problem is that a major part of PCH was using Global Positioning System coordinates to ensure that the 600 health facilities in 13 Afghan provinces it funded "were in the appropriate locations and providing the local population with needed health services," Sopko wrote.

SIGAR's inspections found that geospatial coordinates for seven of the 23 facilities were more than 3.1 miles away from the ones USAID had, the letter states.

"As SIGAR has stressed previously, robust program oversight requires specific knowledge of the location where the service is provided," Sopko wrote. "Moreover, accurate location-specific information is critical to ensure that the local population is receiving the intended services."

He referred to the early October bombing of a Doctors Without Borders hospital in Afghanistan as further evidence of the importance of having accurate location data. The attack killed 30 people.

"The recent destruction of the Doctors Without Borders hospital in a battle with the Taliban in Kunduz dramatizes the importance of having accurate GPS coordinates for healthcare facilities," he wrote. "SIGAR encourages USAID to confirm and update the coordinates it maintains for the 23 clinics."

Other holes in USAID's reporting that SIGAR found include:

- Insufficient photographic evidence of 21 out of 40 facilities.
- Photos provided lacked embedded geospatial data.
- Insufficient information on site visit reports.

Additionally, in his letter Sopko noted problems with the operational condition of some facilities, such as improper disposal of medical waste and unreliable power and water supplies even though PCH provided funding for basic utilities.

"The absence or inconsistency of electricity to refrigerate these basic stocks raises questions about whether the allocated funding is indeed reaching these facilities," he wrote.

Although PCH ended in June, USAID continues to support the

facilities through the World Bank's System Enhancement for Health Action in Transition program.

Sopko has long suspected problems with the data. For example, he testified to Congress last year about potential vulnerabilities in USAID's funding to the health facilities, and he has written other letters to USAID on the topic.

For more:

- read the letter

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5. <u>Army official: Personnel must be diligent about user roles</u>

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | InclinkedIn

As Army personnel navigate the networks and devices needed to conduct business daily, their roles — and access privileges — may change. Colonel Greg Conti, director of the Army Cyber Institute, said personnel can take an active role in network defense by providing feedback on what they can or cannot access.

The idea that if access to something isn't blocked, then it must be okay to access is a "dangerous mindset" in the IT world, "predicated by insufficient information security awareness and lack of perceived individual responsibility for network and data security," <a href="https://www.wrote.com/w

There isn't enough emphasis on incident reporting, he added, which could reinforce security policies and encourage personal responsibility for computing safely.

Everyday users are called to resolve discrepancies in user roles and leaders are called to "educate, train and inspire our soldiers to act responsibly and understand that their actions on and off the network can have strategic Army and national effects," said Conti.

Information security is not a battle reserved for those at Fort Meade, but one all Army personnel should be engaged in, he said.

"Through the vigilant protection and maintenances of our Army's networks, we can do our part to ensure we are always ready to

protect the nation," wrote Conti.

For more:

- read the Army CIO/G-6 blog post

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Today's Top News

1. OMB expected to 'substantially change' identity management performance metrics

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | MilinkedIn

WILLIAMSBURG, Va. – Identity, credential and access management is getting more senior-level attention across the federal government due in large part to a "cybersecurity sprint" the Office of Management and Budget launched in response to recent breaches.

Privileged users and personal identity verification, or PIV, cards were a major focus of the sprint, but OMB is planning to issue ICAM guidance that no longer emphasizes PIV deployment as the sole indicator of security compliance, said Jim Sheire, director of identity management at the General Services Administration's office of governmentwide policy.

"With FISMA metrics, ICAM has always been 'How many PIV cards did you issue?' And that's it," said Sheire, during an Oct. 26 panel discussion at ACT-IAC's Executive Leadership Conference.

"They are going to be looking at far more elements of how ICAM works," he said.

Sheire said a draft of the revised ICAM metrics has been circulated among the Federal Chief Information Officers Council. He suggested CIOs make sure their performance teams and ICAM personnel are well aligned to respond to data calls that could soon be required of agencies.

Performance metrics could change even further in fiscal 2017. OMB is looking at ways to shift compliance-based metrics to an outcomes

approach, in terms of how ICAM systems are implemented, said Sheire.

Implementation of the Federal Information Technology Acquisition Reform Act, or <u>FITARA</u>, should only further enable CIOs to get a better handle on what components are doing, and deploy identity management solutions and policies enterprisewide, he said.

The increased focus on ICAM shouldn't come as a surprise. Appendix III of the draft update to OMB Circular A-130, which was issued last week, includes a key sentence that likely caught the attention of identity management experts.

The guidance directs agencies to "implement access control policies for information resources that ensure individuals have appropriate authorization and need, and that the appropriate level of identity proofing and/or background investigation is conducted prior to granting access."

Requiring "authorization" versus the standard "authentication" when granting access to a federal system indicates a shift in focus from OMB, explained Sheire.

"PIV and HSPD-12 have always been about authentication. And with this text, authorization is finally getting at this notion of, what do we know about these people? [It's] this Gartner-esque concept of knowing the right people have the right access to the right resource for the right reasons," he said.

Agencies are also experimenting with the use of derived credentials, which can enable a credential based on an original PIV card to be configured to a mobile phone. Sheire said the CIO Council is bringing the people leading these pilots together to identify common approaches. This could result in additional guidance to agencies that will help them adopt approaches that tie into ICAM systems, said Sheire.

For more:

- read and comment on the proposed OMB A-130

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2. <u>GSA's new shared services lead hopes to uncover agency savings with a holistic approach</u>

By Molly Bernhart WalkerOcomment | Forward | Twitter | Facebook | LinkedIn

WILLIAMSBURG, Va. – What happens before and after an agency moves to a shared service provider is just as important as the actual transition, according to Beth Angerman, the new lead at the General Services Administration's Unified Shared Services Management Office.

Angerman, who is on detail to GSA from her role as executive director of the Treasury Department's office of financial innovation and transformation, plans to help agencies improve budget planning and actually capture savings post-implementation in order to capitalize on a shift to shared services. The new office is part of GSA's broader vision to implement a governmentwide shared services management and oversight operating model, which it unveiled last week.

During a panel discussion at ACT-IAC's Executive Leadership Conference on Oct. 26, Angerman outlined her priorities for the office, which included policy clarification, common service level agreements, transparent pricing and performance standards, among others.

Angerman said agencies can expect her office to issue a "playbook" that will offer guidance on choosing a shared service provider and preparing to make an investment to move to the new service.

Better aligning shared services plans with budget is critical, she said.

"When agencies are planning to move to shared services ... obviously it's an initial investment. It's a re-implementation of a system on to a new platform. And so there is a large budget request that's required in the beginning," said Angerman.

Given that budget requests are made roughly two years in advance,

agencies need to be sure they're requesting the right amount and that planning is a collaborative effort between the agency and their provider, she said.

Not only must agencies carefully plan their investment, they have to anticipate how they will capture savings.

"Just the other day, one of the providers told me that their customer is complaining about their cost, but post-implementation the customer did absolutely nothing about all of the resources that they had. They just double-check all of the work that the provider does," said Angerman.

Angerman said part of her office's job will be to ask agencies what their operation looks like once it's shifted to a shared service.

"Agencies need to come forward with plans, in partnership with their provider of choice and demonstrate that they've thought about essentially how their organization will operate and what that new operating model is after implementing shared services," she said.

Some efficiencies aren't quantitative — such as cutting full-time employees — but qualitative — such as shifting a team from transaction-based work to more analytical and strategic work, she said.

But a major part of the plan will be "us actually holding them accountable for that ... Not only planning for it, but making the decisions and the choices that actually get them there is a really important part of this new process," said Angerman.

While her office was only officially stood up this week, Angerman said she has no shortage of input from agency executives and organizations like the Professional Services Council, ACT-IAC and the Association of Government Accountants.

"If feedback is a gift, every day is my birthday," Angerman joked during the conference.

"I often hear that this started as a pilot. Well, I can certainly tell you that this hasn't felt like a pilot," she said.

"Now, I think it's time that it becomes something that's institutionalized in the government, and hence, the need for this new office and new cross agency board that will help to set a vision for shared services."

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3. 2-year federal budget deal expected to pass

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | LinkedIn

The House of Representatives could pass a budget deal as early as today that lays out a plan to fund the federal government, which is currently operating under a continuing resolution set to expire Dec. 11.

Republican and Democratic lawmakers expect the proposal to be supported by Congress and become law by Nov. 3 — the goal set by Treasury Secretary Jack Lew to avert potential federal default, reports *The Hill*.

Because the proposal is merely a plan and not an appropriations bill, Congress will have to produce additional legislation to avoid a government shutdown, most likely with an omnibus spending bill.

The legislation, which is being circulated as a discussion draft (pdf), would increase discretionary spending by \$112 billion over fiscal 2016 and 2017 and exceeds across-the-board spending caps, known as sequestration, established in the 2011 Budget Control Act. However, the bill continues sequestration overall – extending the 10-year budget cap from a 2023 end-date until 2025.

"Today's budget agreement includes \$80 billion in sequester cap relief over the next two years, plus \$31 billion in additional funding. The agreement is front-loaded, with \$50 billion of that sequester cap relief and roughly \$16 billion of additional funding coming this fiscal year, constituting nearly 90 percent of the discretionary sequester relief for 2016 proposed in the President's Budget," wrote Jason Furman, chairman of the Council of Economic Advisors, in an Oct. 27 White House blog post.

Politico reports that Rep. Paul Ryan (R-Wisc.), who is expected to be elected as the next speaker of the House in a closed election Wednesday morning, will support the deal, despite prior criticism of the process through which it came together.

"I think every Democrat will vote for it and there will be enough Republicans in the conference that ultimately the deal will be passed. That doesn't mean I agree with it," Rep. Matt Salmon (R-Ariz.), told *The Hill*.

In a statement emailed from the Bipartisan Policy Center, the group commended the White House and Congress for working together to reach an agreement that does not jeopardize the nation's borrowing power, lifts sequestration and keeps the government open and running.

The National Defense Industrial Association also issued an email statement saying the legislation "provides a real opportunity for the Department of Defense to move forward with much needed investments in modernization, readiness and technology."

Although some programs saw cuts as part of the deal, the proposal contains no provisions that would cut federal workers' pay or benefits.

"While the legislation includes spending cuts, or offsets, in exchange for increasing sequester spending levels, those offsets do not directly affect federal pay or benefits," said the National Treasury Employees Union in a statement emailed to reporters.

For more:

- download the discussion draft of the budget agreement (.pdf)
- read the article from *The Hill*
- read the White House blog post

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4. Operational confusion led to more than 400 critical- to high-risk vulnerabilities persisting on systems at BIS

Comment | Forward | Twitter | Facebook | In LinkedIn By Robert Bartley

Failures in communication and a lack of remediation for known cybersecurity flaws pointed to the Bureau of Industry and Security's continuous monitoring program as being 'deficient,' according to a report.

The U.S. Commerce Department Office of the Inspector General said in a report made publicly available last week that the BIS's faulty scanning practices — which relied on outdated technology increased compromise risk. The OIG further found that BIS did not follow protocol for remediating identified security weaknesses, including failing to fix more than 400 known critical- to high-risk security flaws.

"The findings presented in this report raise our concerns about BIS' commitment to follow fundamental security practices required for implementing an effective continuous monitoring program," read the OIG report. "Until BIS leadership gives serious attention to effectively implementing fundamental security practices, its continuous monitoring program will not provide adequate

information for BIS authorizing officials to make risk-based decisions."

BIS is an arm of the Commerce Department that focuses on advancing U.S. foreign policy, economic goals and national security in part through public and private sector partnerships. The "paramount concern" of the agency is the security of the United States, including cybersecurity.

The report, titled "Lack of Basic Security Practices Hindered BIS' Continuous Monitoring Program and Placed Critical Systems at Risk," pointed to several components that made up each of the agency's shortcomings.

For remediating identified vulnerabilities, BIS failed to correctly identify the employees in charge of patching security systems, which led to the security monitoring and assessment systems containing 70 percent of the more than 400 critical- and high-risk vulnerabilities found on the systems. OIG also found flaws that it had previously identified in an audit in 2009.

It seems like confusion at the operational level led to some of the vulnerabilities persisting. According to the report, when OIG pressed teams on the lack of updates, it found that the operations group and security staff both thought the other team was in charge of updating security systems.

BIS further failed to follow its own plan of action and milestone, or POA&M, system it had set up following the 2009 OIG audit. BIS was also slow to correct actions they knew to undermine its security posture.

When it came to faulty scanning practices, BIS used a scanning tool that was outdated by 15 months. The lapse in updates made the agency vulnerable to any new threats identified during that time. The OIG immediately notified BIS of that finding, and the tool was updated.

Further, the scans BIS did undertake were not comprehensive due to insufficient credentials; the scanning tool produced reports every month, but officials did not review some of them for over a year; and a lack of an improper IT system inventory made it impossible to determine what components supported the high-impact systems, which are most critical to the function of the agency and most important for vulnerability scans.

OIG offered five recommendations for the agency, including keeping an accurate inventory of IT hardware; creating an effective vulnerability scanning protocol; making the vulnerability process clear; fully utilizing the previously implemented POA&M system and establishing procedures that give that system greater accountability.

In a letter to the OIG dated Oct. 1, BIS concurred with all of the inspector's recommendations. BIS is working with the Commerce

Department to bolster its cybersecurity efforts.

For more:

- download the full report at the OIG website (.pdf)

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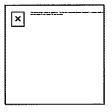
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SPOTLIGHT ON... CISA passes Senate, next come negotiations

The <u>Cybersecurity Information Sharing Act</u> passed in the Senate with a 74-21 vote on Tuesday. *Politico* <u>reports</u> that a conference committee in the House will likely try to reconcile its version with the Senate iteration, as well as with two cybersecurity measures that passed in April. A compromise is not likely to be reached before January, <u>says</u> the publication.

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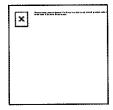


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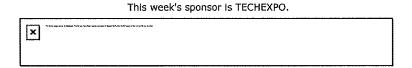
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Today's Top News

1. Reservists, rotations and a call to end 'hacks' of the federal hiring process

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | LinkedIn

WILLIAMSBURG, Va. – As government looks to foster innovation, it's also looking to its workforce — bringing new talent to government while also awakening career personnel that have let their roles stagnate.

But David Bray, chief information officer of the Federal Communications Commission, said if government really wants to nurture innovation, it should disrupt workforce recruitment and retention by rethinking those very terms. Two new "r" words could prove transformative: reservists and rotations.

"Let's apply the reservist model to get the work of government done," said Bray during an Oct. 26 session at the ACT-IAC Executive Leadership Conference.

The U.S. military allows people to serve while still having a full-time job. The concept has been applied to the civilian, IT innovation space by the government of Taiwan, as well.

"Taiwan is a country of actually 24 million that has 90,000 volunteers on weekends and nights write open source code to make government websites and apps better — on their own, pro bono. And then the government looks at the open source code and decides whether to accept or reject," said Bray.

Rotations could also revolutionize the federal hiring system. Job applicants could apply for a specific project, said Bray. Of course, agencies will still need the institutional knowledge of "people who can go deep and know an area very well." But rotations could be ideal for more innovative roles, he said.

"You were hired by the federal government as a whole, you just happen to have a skill with Agriculture or a skill with Interior and these projects could show up as maybe internal challenges on the inside, as opposed to the outside," said Bray.

Phil Harding, public entrepreneur with the General Services Administration's 18F and Office of Citizen Services and Innovative Technology, agreed that the federal hiring and placement process needs an overhaul.

"I see a lot of hacks that we're doing across government," he said.

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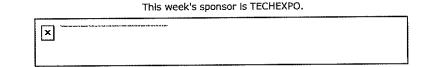
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Today's Top News

1. Reservists, rotations and a call to end 'hacks' of the federal hiring process

By Molly Bernhart Walker Comment | Forward | Twitter | Facebook | LinkedIn

WILLIAMSBURG, Va. – As government looks to foster innovation, it's also looking to its workforce — bringing new talent to government while also awakening career personnel that have let their roles stagnate.

But David Bray, chief information officer of the Federal Communications Commission, said if government really wants to nurture innovation, it should disrupt workforce recruitment and retention by rethinking those very terms. Two new "r" words could prove transformative: reservists and rotations.

"Let's apply the reservist model to get the work of government done," said Bray during an Oct. 26 session at the ACT-IAC Executive Leadership Conference.

The U.S. military allows people to serve while still having a full-time job. The concept has been applied to the civilian, IT innovation space by the government of Taiwan, as well.

"Taiwan is a country of actually 24 million that has 90,000 volunteers on weekends and nights write open source code to make government websites and apps better — on their own, pro bono. And then the government looks at the open source code and decides whether to accept or reject," said Bray.

Rotations could also revolutionize the federal hiring system. Job applicants could apply for a specific project, said Bray. Of course, agencies will still need the institutional knowledge of "people who can go deep and know an area very well." But rotations could be

ideal for more innovative roles, he said.

"You were hired by the federal government as a whole, you just happen to have a skill with Agriculture or a skill with Interior and these projects could show up as maybe internal challenges on the inside, as opposed to the outside," said Bray.

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