

# ALERT!

The Latest News About Sony Security Systems

## Briefs

**Sony Displays More Than 20 New Products at ASIS...** A camera technology set to revolutionize the CCTV industry led a line-up of more than 20 new products at Sony's ASIS booth Sep. 14 - 17. Along with the new camera technology, Sony displayed its new remote processing equipment, printers, recorders, monitors and multiplexers.

## In Print

**Security News...** "Sony Extends Service Program to Resellers." 7/98. Placement announcing Sony has extended its 24-hour customer service guarantee to resellers.

**Casino Executive Magazine...** "Watchful Eyes." 7/98. Article on casino security includes Turning Stone's installation of the SSC-CX34 camera, SSC-DC14/34 cameras, SM-171 camera and SSM-14N1U/-20N1U monitors.

**L.E. Product News...** "Standards-Based Security Monitoring for Remote Surveillance." 7-8/98. Product placement introducing the RSE-400/500 monitoring processors.

**Carlson Report...** "Security: Parking Lot CCTV Cameras, What's New." 8/98. Cover story featuring bylined article by Ken LaMarca on parking lot security.

**Security...** "Color Camera Tech Focuses on Low Light Performance." 8/98. Article on CCTV color cameras features quotes from Ken LaMarca.

## Sony Introduces Two New Large Format Printers

*B & W printers replace UP-910 and UP-930*

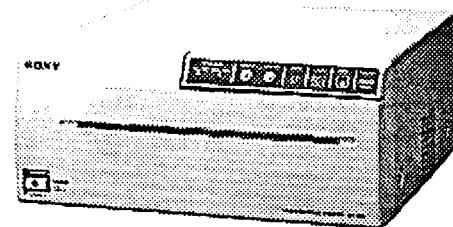
Addressing the security industry's need for a high-quality, large-format printer, Sony Electronics introduced two new high-resolution black and white printers designed specifically for security and surveillance applications. The UP-960 and UP-980 printers feature enhanced image quality, faster print time and functionality than their predecessors, the UP-910 and UP-930 printers.

Both printers produce high-quality and precise printouts, while the UP-960 printer is capable of producing either one 7.46" by 5.62" or two 3.72 by 2.8" images per page at a resolution of 163 dpi (1280 pixels). Incorporating an advanced thermal print head, the printers offer true 256 gray scale control, resulting in monochrome prints of exceptional picture fidelity for security applications such as closed circuit television monitoring.

"Sony is committed to developing high-quality imaging technologies designed to meet the specific needs of the security marketplace," said Ken LaMarca, director of security products for Sony Electronics' Broadcast and Professional Company. "Whether analyzing or storing images, security professionals demand a high-quality output device. Sony understands this need and has incorporated technology into our new printers to meet the tough requirements of security applications."

### Sony UP-960

Sony's UP-960 printer is a full-page, black and white video graphic printer that produces high quality hard copy images. The printer features one frame of memory,



a selectable aspect ratio of 4:3 or 1:1 and a selectable multiple print mode that allows users to print two pictures per page, providing the user with well-defined, large-format images. For convenience, the printer offers 10-second high-speed printing.

The printer accepts both NTSC and PAL signals and is equipped with a worldwide power supply, accepting 120 to 240 volts. Designed with a compact footprint of 316mm by 132mm by 300mm, the printer is easy to install in a variety of security settings.

### Sony UP-980

The UP-980 printer is a full-page, black and white, PC-interfaced Multiscan® printer that produces high quality hard copy or transparency images. The printer features true 256 gray level control, two frames of memory and a selectable multiple print mode that allows users to print two, four or six images per sheet to provide maximum flexibility for image output.

The printer is an international model - accepting both NTSC and PAL signals, as well as a worldwide power supply that receives 120-240 volts.

# Sony Security Introduces Standards-Based Security Monitoring Processors for Remote Recording and Surveillance

Sony Electronics has combined the latest advances in standards-based digital image processing technology to deliver real-time video monitoring of remote surveillance sites. When connected over ISDN, Sony's RSE-400 and RSE-500 Processors can share audio, full-color video and data at up to 30 frames per second.

"The RSE-400 and RSE-500 Processors make remote surveillance practical by giving security managers the control they need the instant they need it," said Ken LaMarca. "Security managers can view the status of their company's assets from a central control center at a higher frame rate than analog-based systems, and if something is out of place, they can use the RSEs to send data commands to specify the hardware or voice instructions to any

personnel at the remote end."

Designed for remote

monitoring applications, including financial, retail and gaming, the RSE-400 and RSE-500 units offer a combination of high image quality, efficient control and low operating cost.

According to LaMarca, a typical application could feature a series of remote locations at any distance from each other, monitored in real or near-real time from a geographically removed control center. In that scenario, each of the remote locations would transmit digital audio and video

data over ISDN using the RSE-400, while the control center would receive the data through the RSE-500.

## Selectable Video Modes

The RSE systems offer three video modes depending on the needs of the user: fast, fine and normal. Fast mode transmits at up to 30 fps for smooth flowing motion. Fine mode provides outstanding image quality at a lower frame rate for detailed observation. And normal mode balances frame rate with picture quality.

## Automatic Far-End Control

Cameras controlled by the RSE-400 and RSE-500 are selectable from local terminals or remote control centers. When switching from a control center, users can view detailed information about the selected camera on the control center monitor.

When an alarm is received, the system can switch automatically to the camera registered in advance

for that alarm.

Up to 10 telephone numbers can be registered for each of the eight alarm ports on the processors. When an alarm is received, live audio, video and data are transmitted automatically to the registered telephone numbers, allowing lights to be turned on and off and doors or shutters to be opened or closed by remote control, thereby enabling action to be taken immediately in the event of fire or accident.

The RSE-400 and RSE-500 units support

bi-directional audio. Audio features can be used for precise surveillance or for voice communication. For example, LaMarca said the voice function could be used to give instructions from the control center or to receive reports from the field.

Both the RSE-400 and RSE-500 can be configured by a remote PC at the control center. Remote diagnostics enable monitoring of codec and peripheral equipment status at the control center for savings and personnel costs.

## Standards Based/System Compatibility

The RSE-400 and RSE-500 are among the first security image processors based on H.320, the ITU global standard for video transmission on circuit-switched digital networks.

"Sony is working with standards-based technology for the security market with the introduction of these products," LaMarca added. "Both products are based on the H.320 standard for compatibility with other products that also utilize the ITU standard.

"Most security products designed today are proprietary; they only work with products from the same manufacturer. But because manufacturers usually don't make all the ingredients of a complete security solution, proprietary products can limit a customer's choice," said LaMarca.

In addition, the system is compatible with a wide range of cameras, monitors and video equipment for compatibility with existing systems and enabling the user to upgrade their systems with minimal investment.

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*The RSE-400 and RSE-500 give security managers the control they need the instant they need it.*

*- Ken LaMarca*

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## CCTV Monitor Helps Migration from B&W to Color

Sony Electronics has announced a new eight-inch (viewable area measured diagonally) Trinitron® color video monitor that fits into the same rack space as existing black and white monitors to facilitate the migration from black-and-white to color CCTV systems.

"The SSM-8040 monitor offers the high resolution images customers have come to expect from Sony's Trinitron® displays,"

said Ken LaMarca. "As security professionals make the move from black and white CCTV systems to color systems, we want to provide them with the best products available. The SSM-8040 Trinitron monitor brings security professionals more than color, it brings them flexibility, high quality and color accuracy."

According to LaMarca, the fundamental need for color accuracy (also called color

range) is driving the move to color. Using a monitor with poor color reproduction for surveillance applications is a great risk. By utilizing Sony's renown Trinitron technology, LaMarca said the SSM-8040 monitor brings confidence, reliability and greater performance. The monitor's features include a comb filter, Y/C input, end-loop through video and easily accessible front controls.

# Sony Introduces New Monochrome CCTV Camera

Sony Electronics has introduced the new SPT-M124 monochrome video camera that accepts both video and DC iris lenses for Closed Circuit television applications. By accepting a video iris lens, the SPT-M124 camera offers greater versatility for product upgrades than its predecessor, the SPT-M104A/1 camera that only accepted a DC-type auto lens.

"This new camera provides our customers with the flexibility to use virtually all 1/3-inch lenses available today," said Ken LaMarca.

LaMarca said the combined CCD Iris® shutter mode and backlight compensation functions allow the SPT-M124 camera to produce high image quality even in adverse lighting conditions by suppressing the background light. Additionally, the camera produces clear images when used with an auto lens in outdoor applications.

The camera features an advanced 1/3-inch HyperHAD CCD chip, 380 TV lines of horizontal resolution and a signal-to-noise ratio of more than 45 decibels for

clear, high-quality images. The wide range CCD Iris function (1/60 to 1/100,000 second), light level control and Automatic Gain Control (AGC) feature for high sensitivity of up to 0.1 lux at f1.2 provide users with enhanced capabilities such as low light performance improvements.

Other features include a vertical-phase control of +/- 90 degrees to allow roll-free switching for multi-camera installations. The new camera is 24-volt AC with line lock synchronization.

SEC-98-2080

TO CONTACT THE SONY ALERT! PLEASE CALL: Karen Sussman

Tel: (212) 320-2218 Fax: (212) 696-2733

email: ksussman@tsipr.com

Look For More Information About Sony Security On The World Wide Web at <http://www.sony.com/professional>

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**SONY ALERT!**  
**475 PARK AVE. SOUTH**  
**FIFTH FLOOR**  
**NEW YORK, NY 10016**

# Chances are, anyone who watches TV has seen stories where criminals have been caught in the act by security cameras. And as camera technology improves, more and more of those criminals are winding up in jail, like the three men who robbed the World Trade Center in January. They were identified by their neighbors who watched the crime unfold on the news.

## Increasing Parking Lot Safety

exactly the case of security cameras mounted in parking lots, and if businesses don't take those environmental factors into consideration, crimes in their parking lots may go unsolved.

The stories are the same in auto dealer parking lots, freestanding ATMs, convenience store lots, and storage lots. The entire gamut of crime is too common: car theft, burglary, armed robbery, assault, rape and murder. But advances in external Closed Circuit Television (CCTV) technology is increasing the effectiveness of parking lot security, a factor reflected both in the safety of customers and the reduced liability of businesses.

Only a few years ago, the standard security system for parking lots consisted mostly of large, obtrusive, black and white cameras. Today, a new breed of compact cameras with high image quality and increased low light performance stand ready to level the playing field between internal and external surveillance. But the question of which camera to buy requires thorough examination into the four areas: color, light levels, features and durability.

### Color or Black and White

Although costs are declining, color cameras still tend to be more pricey than black and white. So, before choosing which type of camera you should buy, it must first be determined what purpose the camera is to serve - verification or identification. Black and white cameras are fine if the sole intent is to monitor who is walking through the parking lot or to verify if a parking lot attendant is doing his/her job. However, color will always be more suitable in situations where the security requirements of a facility demand quick identification of individuals and objects.

But the camera issue doesn't end when a business or police department decides to install a color camera. When looking at a color CCTV camera or monitor to effectively track crime and identify criminals, color accuracy (also called color range) is a fundamental issue. Using a camera with inaccurate color for identification purposes is a great risk. For example, if a victim of an

But the World Trade Center robbery, recorded by a black and white camera, took place inside a well-lit facility. Imagine the challenge investigators must face when the camera is outside, in poor light, and maybe even in the rain. That's

attack in a parking lot can identify the attacker by the red sweater he was wearing, and the red appears orange or brown on the camera, the attacker is less likely to be identified.

Speaking with security professionals over the years, we at Sony have found that a quality color CCTV system provides natural color tones, therefore putting less stress on the eyes and allowing security personnel to monitor CCTV output for longer periods of time. This can translate to increased vigilance and greater attention to detail for security personnel. Additionally, a black and white security system can be more easily "tuned out" and an occurrence not "seen" on the video display.

### Light Levels

But color CCTV systems also face challenges. Will there be harsh lighting conditions such as monitoring a parking lot with high pressure sodium lighting, or a backlight situation such as at a bank's ATM?

Black and white CCTV systems are often the best technology for many low-light parking lot applications. Black and white systems are most sensitive in the near infrared range, enabling outdoor security systems using IR illuminators to see in almost total darkness. Additionally, despite the advances of color cameras, black and white CCTV cameras offers higher resolution than color.

While black and white CCTV cameras are still superior to color cameras in low light monitoring, cameras which utilize Sony's HyperHAD® CCD technology

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***The entire gamut of crime is too common: car theft, burglary, armed robbery, assault, rape and murder.***

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today provide excellent low light performance in a color package. Other technologies,

such as advanced digital processing, ATW Pro and automatic back light compensation, are features which make color cameras appropriate for parking lot applications.

So, in making the decision as to whether to choose color or black and white, take into account both the intended purpose of the camera: verification or identification, as well as the lighting conditions of the parking lot. Black and white cameras are ideal for verification and low-light light conditions. Color cameras are best utilized for identification purposes in high-light situations, but can also be used in low-light circumstances if they employ a feature such Sony's HyperHAD CCD technology.

Every CCTV parking lot application is different. The key is to identify requirements and work with integrators to install the best system. The architects and engineers of these systems are required to understand and work with the key aspects of security technology, such as how to minimize bloom and smear, how much light is available, what is the appropriate resolution, and color or black and white. The product choices will ultimately give the finished system a unique

quality.

- Ken LaMarca