NORITSU NEWS

LAW ENFORCEMENT PHOTOFINISHING:
Noritsu Responds to Diverse Needs

**Digital Imaging and
Asset Software for
Law Enforcement**

**dDP-421/621
Product Close-up**

POLICE

www.noritsu.com

Dear Noritsu News Reader,

Noritsu is proud to serve over 80 law enforcement agencies across the United States. Our law enforcement customers are realizing improved quality of their photographic evidence, greater efficiency through digital image processing and enhanced protection of the chain of evidence. We have been working with Federal, State and Municipal organizations for over 20 years. Whether it's assisting in the transition to digital or helping develop improved lab workflows for greater productivity, Noritsu offers proven, field-tested imaging solutions.

In this issue of Noritsu News, we profile a number of police departments that are maximizing the capabilities of their photo processing equipment. See Page 4 for details. We also shine the spotlight on Foray Technologies, a software company that is using digital asset management to improve law enforcement imaging workflow.

Noritsu has a variety of imaging solutions to suit most any department requirement and budget. We are well versed in governmental agency requirements and look forward to providing you and your department with the best possible service. Visit us at the 91st IAI International Educational Conference in Boston or during the 47th Annual Florida Division IAI Conference or call 1-800-521-3686 x225.

Warm Regards,
The Noritsu News Team
feedback@noritsu.com

# Noritsu America Corporation salutes its Law Enforcement customers

Noritsu proudly serves the following law enforcement agencies.

Alabama Department of Public Safety

Alexandria Police Department

Arapahoe County Sheriffs Department

Arizona Department of Public Safety

Austin Police Department

Baltimore City Police Department

Baltimore County Police Department

Charleston County Police Department

Chattanooga Police Department

Chautauqua County Sheriffs Department

Chicago Police Department

Cobb County Sheriffs Department

Colorado Springs Police Department

Colorado State Police Department

Connecticut State Police Department

Cook County Sheriffs Department

Delray Beach Police Department

Denver Police Department

Douglas County Sheriffs Department

El Cajon Police Department

Fairfax County Police Department

Forsyth County Sheriffs Office

Fort Lauderdale Police Department

Franklin County Sheriffs Office

Fullerton Police Department

Harris County Sheriffs Department

Harrisburg Police Department

Hollywood Police Department

Houston Police Department

Howard County Police Department

Illinois State Police

Iowa Department of Public Safety

Jacksonville Sheriffs Office

Kentucky State Police

King County Sheriffs Office

Knoxville Police Department

Lafayette Parish Sheriff's Office

Lake County Sheriffs Department

Las Vegas Convention and Visitors Authority

Las Vegas Metro Police Department

Los Angeles County Coroners Office

Los Angeles County District Attorney

Los Angeles Police Department

Louisville Police Department

Manatee County Sheriffs Department

Memphis Police Department

Mesa Police Department

Miami Beach Police Department

Miami Dade Medical Examiner

Miami Dade Police Department

Miami Dade State Attorney

Milwaukee Police Department

Minnesota Department of Public Safety

Montgomery County Police Department

New Jersey State Police

New York City Police Department

Oklahoma Department of Transportation

Orange County Sheriffs Department

Overland Park Police Department

Palm Beach County Sheriffs Office

Pasco County Sheriffs Department

Pennsylvania State Police

Phoenix Police Department

Pima County Sheriff's Office

Pinellas County Sheriff's Dept

Prince Williams County Sheriffs Office

Mercer County Prosecutors Office

Rochester Police Department

Saint Tammany Sheriffs Office

San Diego County Sheriffs Department

Santa Rosa Police Department

Sarasota County Sheriffs Office

Scottsdale Police Department

Sioux Falls Police Department

St. Louis County Police Department

St. Lucie County Sheriffs Office

State of Georgia Department of Public Safety

Tampa Police Department

Texas Department of Public Safety

Tucson Police Department

University of Missouri - Columbia Police Department

Washington Metro Police Department

Wilmington Police Department

CRIME SCENE — KEEP OUT
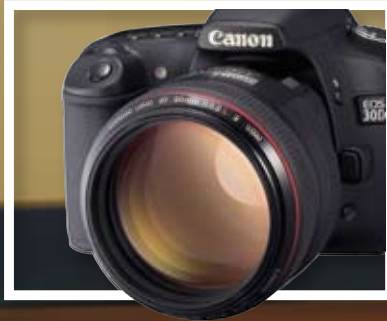
Law Enforcement
& Photofinishing

Noritsu Minilabs Handle Diverse Needs of
Police Departments and Crime Labs

Mark Newth of the Connecticut State Police Forensic Lab is one of three forensic photographers that handle the photo processing for the state police. "We have about 1,200 troopers who photograph everything that relates to their investigations, including violent crimes and bank robberies, etc. Their film is our highest priority," says Newth. For major crimes such as homicides, primary images are photographed with film and backed-up with a digital camera. A few years ago, those secondary images were made with either slide film or Polaroids. "We still shoot mostly film," states Newth, "but we have digital input now."

Newth and his team process film and images for the entire department: They produce approximately 1,000 to 1,500 images per day. "We archive all the negatives and CDs here, as well. We also make all the reprints for the state for court usage (The state police has a division called Reports and Records where attorneys can order case-related images.) The lab's standard production size—printed from rolls of film shot by various people—is 3 1/2 by 5 inches. The lab's new Noritsu QSS-3211 produces images up to 12x36-inches which, notes Newth, "a lot of state attorneys like to use for court presentations."

The machine also makes index prints in any size. "We're making 8x12-inch index prints that many of the troopers say is all they need for their reports," explains Newth. "I no longer have to make them a set of pictures for some of the more minor cases. They simply file away the index print and if (the case) goes to court and pictures are needed, they can order them down the road. That has saved time and money too."

This is the lab's third Noritsu machine. Its first minilab, purchased in 1992, was a Noritsu 1501 that is no longer in use. In 1998, the lab enlisted the help of a

Noritsu 2211. "The 2211 was a workhorse that kept up with our demand," says Newth, "but it couldn't take digital input, which we started to get a lot of—CDs and media cards—from troopers in the field. The only thing we could do with those was put them in our PCs and try to burn CDs or print inkjet and dye-sub prints. It took forever and it wasn't cost efficient."

The department did try to standardize the cameras that the police used. "We have thirteen troops and another seven or eight specialized task forces headed up by different people working on separate budgets. It was hard to get everyone on the same page. We needed processing

equipment that could handle the input from all the different cameras out there. For us, the Noritsu QSS-3211 creates a marriage between the digital and film worlds," says Newth. "With this machine, we can now take almost any digital input and simultaneously produce prints and CDs at high volume."

Before the minilabs were brought in, the lab used tabletop processors that were a bit slow. "We had huge backlogs in getting images back to the troops. Now they get their images back within a calendar month, which may seem slow, but it's probably faster than they'd like," laughs Newth. "Because when they get them back, they have to do their photo reports. It's an adequate amount of time for our needs at the moment; we could certainly do it faster if we needed to. We have evidence submitted all the time that needs documentation," continues Newth.

"Photo processing is only one of our many responsibilities, which is why we have a one-month turnaround. But if someone needs something back in a hurry for a court case, etc., we can push it through quickly.

"When we bought the QSS-3211, we also purchased three CT-2 kiosks, which were sent out to the three major crime squads in the state. They're not installed yet," states Newth, "but will be in the next six weeks or so. They'll allow Major Crimes to shoot more often with digital, then take the cards out of their cameras, stick them in the unit and send the pictures to us immediately. Processing time will be reduced by two to three weeks from the time a homicide

scene occurs to the time they can deliver everything to the state attorney's office. And that's a huge advantage for a murder investigation," concludes Newth.

Baltimore Police Photo Lab

In Baltimore, Maryland, the Police Department photo staff includes supervisor Bob Smith, and photographers Helen Younkins, Roman Hankewycz, and Richard Steelman. Here, the staff has a small army of Noritsu minilabs at its disposal—the QSS-2301, QSS-3213, and dDP-621. The units are used for a variety of tasks including printing, scanning, and copying. States photographer Roman Hankewycz, "We loaded Adobe Photoshop into the QSS-3213 so we can scale and clarify fingerprints, shoe prints, and tire impressions. The built-in scale really helps a lot.

"In the past, we used to print old B&W negatives using an enlarger. But with the

QSS-3213 we can scan things on the flatbed scanner and drop them into Photoshop; we can also make enlargements up to 12x36-inches without having to return to the darkroom. It's much, much quicker," he says. "We can do most of our work on that one console."

The machine also helps correct "human errors." "We get a lot of crime scene images that are really under- and/or overexposed," admits Hankewycz. "The QSS-3213 does a great job of handling those kind of negatives where we can't even see where one frame ends and the next one begins. The minilab has a feature that fixes that and let's you see right away

what's going on. It does a lot of things we couldn't do by hand on a custom enlarger or any other machine."

The lab still uses both the Noritsu 2301 and dDP-621 on a regular basis, though they are mainly considered backups for the QSS-3213. "We can't afford to be without photographic services for any extended period of time," says Hankewycz.

The Baltimore photo lab's staff has seen a number of cuts in the past 25 years and the Noritsu equipment has helped it accomplish more with fewer employees. "(The machine) has really sped up the work," adds Bob Smith, "and that's what we need here since there's only four of us and the workload has increased." Next year, the Baltimore Police Department photo lab will be ASCLD (American Society of Crime Lab Directors) certified, and the lab's staff credits its Noritsu minilabs for helping them achieve that status.

Helping Maintain
the Integrity of
Photographic
Evidence

FORAY TECHNOLOGIES:

Software Solutions for Law Enforcement

LATENT PRINT
(Source of print)
(Exhibit No.)

KNOWN PRINT
(Name of individual)
(Exhibit No.)
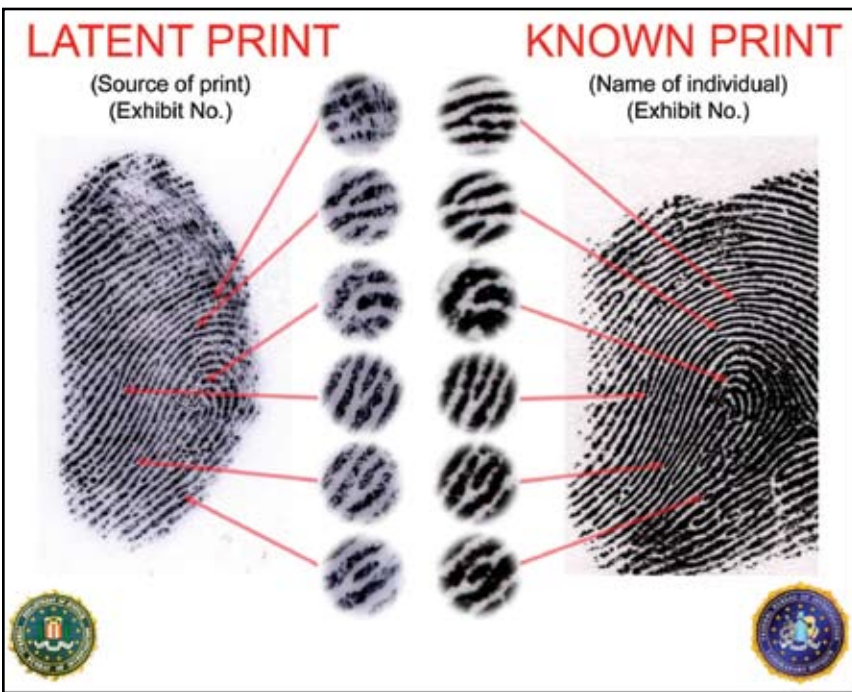
Foray Technologies is a software development company that specializes in developing applications used by law enforcement agencies. "The software is geared for the capture and management of digital assets, which could be photographs, audio or video files, the contents of a cell phone or PDA, or a computer desk drive that's been seized as the result of a homicide investigation, drug or gang activity, etc.," explains David Witzke, Vice President, Program Management, Foray Technologies.

Foray Technologies' software not only provides agencies with the capability to capture and download images and/or assets but also the ability to authenticate them, and to follow and maintain a chain of custody of items that tracks who has had access to them, who printed them, and so on. "To be in compliance with legal requirements," states Witzke, "we not only have to maintain the chain of custody, but also the history of that item, which includes how we (may have) enhanced an image from a non-identifiable image to one that can be identified.

There are certain types of images such as fingerprints that may not be identifiable because of the background of the surface it's on. We've developed software (that included integrating Adobe Photoshop into its applications) that helps remove those backgrounds so a fingerprint, etc., that is non-identifiable can be visualized. To make a long story short, we do a lot of different things for different agencies."

For example, Foray's software allows users to acquire images in a batch download process where, say, a detective that's returned from a crime scene with a digital camera can download images from the camera and "check them in" so they aren't dispersed and/or lost. "Using our software with the digital acquire function, (users) can download the batch, and then sort them based on a case number, a crime category, or even an evidence category," notes Witzke. "Images can also be sorted and classified as to what type of item it is, such as a finger or palm print."

These days, most evidence photos are captured with digital photography, which then begs the questions, "What was done to alter or manipulate that image?" "Could someone have taken the flashcard out of the camera and enhanced it?" "How do you track who's had access to it, etc?"

"Our technology provides the ability to lock those possibilities out so you know exactly when it was taken, by whom, where, and how," explains Witzke. "There's also the issue of code of ethics that (pros, such as photojournalists and law enforcement) should abide by. But there are still those people who want to violate that code. It's a challenge we face that comes up in the courtroom; 'What do you do to authenticate those images and circumvent that process?' That's part of the reason why the software came into being—to eliminate those questions and avoid those challenges, especially with images for law enforcement."

Foray Technologies provides software to agencies such as the DEA in Miami that use Noritsu printers. Although the company's software is compatible with a host of systems, it likes the Noritsu dDP-421 because of its high-speed capability. "When you're trying to print 12 x 18 charts," says Witzke, "you don't want to wait all day for them. The Noritsu dDP-421 is very fast, reliable, and dependable. Plus, it's extremely cost-effective."
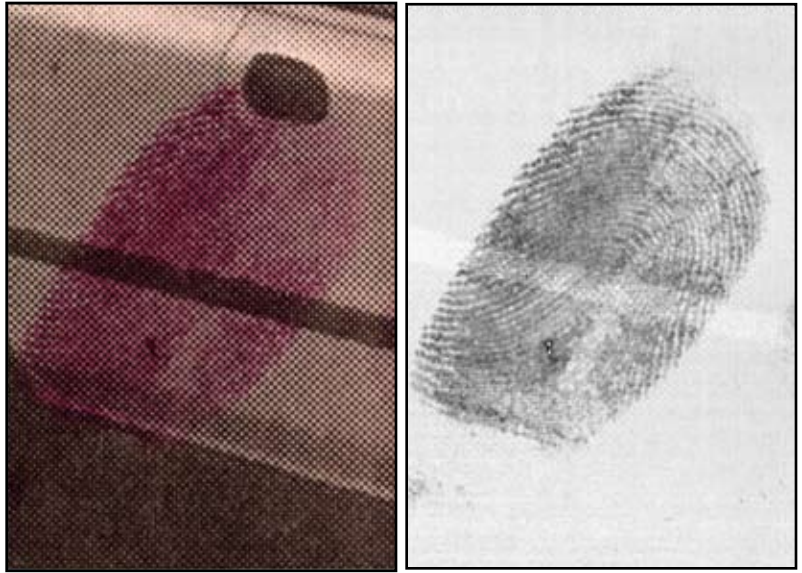
This image utilizes Foray's software that removes "background" distractions from an image and let's the "print" come through.

Witzke added, "Our templates and formats are completely compatible with the Noritsu dDP-421, which makes the use of the printer very transparent to the end user. Plus, there are some very special functionalities we've designed with the Noritsu printer in mind such as a remote print capability," continues Witzke. This allows an individual in one office location to print to a Noritsu in another location. The individuals on-site can control the workflow of that print without interrupting other print jobs or co-mingling with other case photos."

To show the true value of the Noritsud DP-421printer, Witzke refers to a recent homicide case where the only thing that linked the killer to the crime scene was a bloody footprint. The suspect killed the victim and stepped in his blood—barefoot—leaving behind a partial print. The crime lab took that partial footprint and made several demos—12 x 18 Noritsu prints—showing different characteristics of the footprint. "The quality of the print," concludes Witzke, "was so incredible that the defense attorney could not argue that the defendant wasn't guilty."

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— David Witzke, Vice President, Program Management, Foray Technologies

Noritsu dDP Printers:
Digital, Dry and Fast

The New dDP-421 & dDP-621 Ramp Up
Digital Print Business

When flexibility and convenience meet quality you know you have a match made in heaven and when it happens within the image processing world you have digital output bliss.

Say hello then to Noritsu America Corporation's new dDP dry minilabs – the dDP-421 and the dDP-621 Digital Dry Printers. Both units offer law enforcement agencies a host of digital benefits, including greater efficiency, ease of operation and high quality digital output heading an impressive feature list.

The dDP-421

The new dDP-421 is the second generation of digital dry printers from Noritsu, the only photofinishing manufacturer to offer dry minilab systems. The dDP line delivers high-quality output while meeting the unique performance and environmental requirements of low-volume labs. Less than half the size of standard minilabs and operating on standard electrical current, the dDP-421 features a compact footprint of just 11 square feet. The dry process is environmentally friendly, with no chemical handling or waste disposal issues. The dDP-421 utilizes a new 7-color set of pigment ink that yields enhanced color portrayal and natural gradations to produce superior, long-lasting output.

The dDP-421 also delivers up to 400 3.5x5-inch prints per hour from digital input, along with enlargements up to 12x18-inches. New glossy paper for the dDP-421 is also available, offering even more output choices.

The dDP-421 accepts a wide variety of digital camera cards and media, and is designed for easy networking to PC workstations and the Noritsu CT-2 Consumer Terminals.

Noritsu is making the dDP-421 part of a complete solution now available for

Noritsu is making the dDP-421 part of a complete solution now available for retailers looking for a low-cost entry into photofinishing.

agencies looking for a low-cost entry into digital photofinishing. The other components of the solution are the new S-1 Film Scanner and the QSF-T15 compact film processor. The S-1 is a desktop film scanner designed specifically for use with the dDP Digital Dry Printer series. The S-1 accepts 135 mm and IX240 roll film or single frame 135 mm. It is capable of scanning 400 frames per hour with output image size in 1.5 or 6.2 megapixels. The S-1 Film Scanner allows dDP owners to use both film and digital input. The QSF T-15 is suitable for low-volume use and operates on standard 110V electricity.

The dDP-621

The dDP-621 is the newest model of second generation digital dry printers from Noritsu, and comes with the distinction of being the highest capacity digital dry printer available the market today, delivering 460 prints per hour for 4x6-inch images. Enlargements up to 12x18-inches are also supported. Like the dDP 421, the dDP-621 also delivers unequaled performance while still providing the same ecological advantages of a dry inkjet printer. The same incredibly small 11 square foot footprint is also a part of the dDP-621, again coming in at less than half the size of standard minilabs. The unit also offers the same ease of operation as the 421, operating on standard electrical current.

The dDP-621 also includes a 7-color set of pigment ink that yields the aforementioned enhanced color portrayal and natural gradations and the dDP-621 also adds a new glossy paper that offers even more output choices than before. The dDP-621 accepts a wide variety of digital camera cards and media, and is designed for easy networking to a PC workstation or a Noritsu CT-2 Consumer Terminal.

Noritsu also announced the availability of the DP-410 and DP-610 Stand Alone Printers. The dDP-410/610 models use the same proven dry inkjet printer technology as the dDP-421/621, but are configured to serve network printing devices.

For more information on all of the above Noritsu products or the complete line of Noritsu products, please visit www.noritsu.com or call (800) 521-3686 x225

Like the dDP 421, the dDP- 621 also delivers unequaled performance while still providing the same ecological advantages of a dry inkjet printer.

DIMA Awards for Noritsu DP-100/QSS-3411

At the 2006 Photo Marketing Association (PMA) Convention and Tradeshow, the winners of the Digital Imaging Marketing Association (DIMA) Printer Shoot-Out and the DIMA Innovative Digital Product Awards were announced.

Two new Noritsu products were recognized. Winning the DIMA 2006 Innovative Digital Product Award was the DP-100. The DP-100 is the only professional-grade, dry inkjet printer in the industry to offer an extensive variety of print sizes in addition to occupying a minimum of floor space. Of the hundreds of digital products on display at PMA Sneak Peek 2006, the DP-100 was one of the 17 selected by a panel of digital imaging editors to receive the prestigious DIMA Innovative Digital Product Award.

The winner of the DIMA Digital Printer Shoot-Out in the 12" max. category was the Noritsu QSS-3411. Industry consultants with expertise in color theory judged the prints, which are evaluated in categories based on technology and by price point subcategories. Qualitative criteria was also used in the judging of the prints based on neutral gray balance reproduction, saturation, shadow depth and quality, overall tonality and detail, highlights and specular highlights, flesh tones, hue shift and text.

Legacy Model Service/Support Change

Service and support will change for certain legacy models of Noritsu equipment.

Effective August 1, 2006, Noritsu America Corporation will discontinue service and support for a certain legacy models of equipment. After August 1st, Noritsu will temporarily provide support of these models on a non-warranty and time and material basis, dependent upon spare parts availability. The following models are affected by this change:

QSS-II / III	QSS-1801
QSS-501 / Delta	QSS-2001
QSS-601, 602, 611, 613, 1602 (enlargers)	E-6180 / 6190
	RPV series
QSS-700 series	HM series
QSS-800 series	CSR series
QSS-901	SB-2
QSS-1001	DM-201
QSS-1101/1102	ENV-W70A
QSS-1200 series including NOUS-201	QSF-60L
	QSF-B50L
QSS-1401 / R1401	QSF-330L
QSS-1501 BW	QSF-B470L
QSS-1700 series	QSF-450L

Trade Shows/Events

Date	Show
July 21-23	Craft and Hobby Association Summer 2006 Convention and Trade Show, Donald E. Stephens Convention Center, Rosemont, Illinois.
October 10-12	MemoryTrends Conference & Expo, Sands Expo & Convention Center, Las Vegas, Nevada.
November 2-4	PhotoPlus Expo, Jacob Javits Convention Center, New York, New York.

>>> For more product information or to see the most up-to-date news and events calendar, visit www.noritsu.com or call 1-800-521-3686 x219

SOFTWARE SYNERGY

NORITSU EZLAB SOFTWARE

Noritsu EZLab is a powerful new suite that provides enhanced control and improved workflow to retail and professional photofinishers. EZLab takes the operator from behind the printer to the front counter increasing productivity and profitability. Acting as a central hub between Noritsu input and output devices, Noritsu EZLab extends your lab's capabilities with productivity enhancements and additional management functionality. Time-consuming tasks are optimized, greatly increasing efficiency.

EZLAB WORKFLOW SOFTWARE

to learn more call 1-800-521-3686 x219 or visit www.noritsu.com
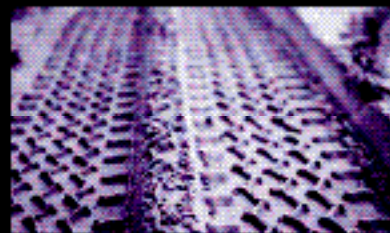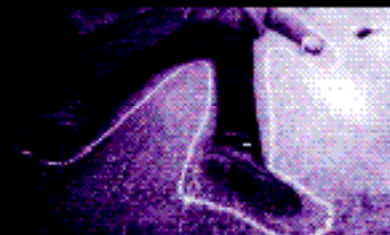
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DIGITAL INNOVATIONS AND CREATIVE SOLUTIONS