projectina®

A DIVISION OF **FORENSIC TECHNOLOGY**

SEE MORE. SOLVE MORE.

CLASS-LEADING **DOCUMENT EXAMINATION**

TOOLS FOR FORENSIC INVESTIGATIONS

PROJECTINA AND FORENSIC TECHNOLOGY

Forensic Technology pioneered automated ballistic identification and analysis over 20 years ago and continues to be a leader in forensic ballistic and firearm identification technologies. Our Integrated Ballistics Identification System (**IBIS®**) revolutionized ballistic identification by helping investigators find matches between pairs of spent bullets and cartridge cases.

In 2011, Forensic Technology acquired Projectina AG, a world leader in the development and manufacture of forensic science products and high-end optical components. Projectina's offerings strongly complement Forensic Technology's core competencies in ballistic identification by leveraging its optics, microscopes, document examination and forensic crime scene products.

Forensic Technology and Projectina currently partner with hundreds of law enforcement agencies in nearly 70 countries, providing cost-effective and sustainable solutions. Forensic Technology is customer-driven, with a worldwide, 24/7 customer support network and dedicated training facilities. Together, Forensic Technology and Projectina offer a vast range of products, tools and services tailored to meet your forensic needs.

PROJECTINA **QUALITY AND COMMITMENT** TO DOCUMENT EXAMINATION
Our document examination systems have been designed for a variety of needs, users, and applications. From banking and border security, to insurance and government agencies, the ability to detect, inspect and view images directly on a monitor and to record them immediately gives users the versatility and workflow they require.

Projectina has a long and rich tradition in the innovation of optical comparison systems. For over 60 years, Projectina has designed, developed and manufactured optical comparison systems for industrial and forensic science applications.

GLOBAL CUSTOMER SERVICES
Forensic Technology and Projectina strive to achieve excellence in delivering customer service. Our mission is to provide customers with first-class services that exceed industry standards for quality, security, and customer satisfaction. Projectina along with Forensic Technology's global support network is only a phone call away.

In our effort to continually improve our service offerings, the support staff at Forensic Technology are both ISO 9001 and ITIL certified. We strive to provide customers with high-quality services that can be measured against the highest international standards.

CANADA | IRELAND | SWITZERLAND | SOUTH AFRICA | THAILAND | USA

DOCUCENTER NIRVIS

CLASS-LEADING INSTRUMENT FOR AUTOMATIC AND MANUAL DOCUMENT EXAMINATION

With excellent optics, a high-resolution digital camera, and fully controllable working sequences in the shortwave UV to IR and IR luminescence ranges, the Docucenter NIRVIS is the most advanced document examination system available.

The Docucenter NIRVIS is ideally suited to the analysis and examination of questioned documents like passports, banknotes, and security paper in the visual and IR ranges as well as short and long UV. The integrated color spectroscopy module also permits spectral comparison investigations. The intelligent software package allows for document comparison, reporting, and database creation, and also includes measurement tools for dimensional scale determination.

Functions in the short UV to IR and IR luminescence ranges

LED ring light illumination for OVD inspection

175x magnification using high-resolution optics

Non-locking removable sides for larger documents

Extra-large 213x160 mm field of view

DOCUCENTER NIRVIS FEATURES

MULTIPLE LIGHT SOURCES	- Transmitted and side lighting capabilities - LED ring light illumination - IR range - Short and long UV
REVEALS COVERT SECURITY FEATURES	- Visualization of "anti-Stokes" inks - Detection of alterations and counterfeits - Birefringent security features - Magnetic ink detection
ZOOM OPTICS	Magnification up to 175x
INTEGRATED CAMERA	High-resolution IR color digital camera

TRANSMITTED LIGHT EXAMINATION OF IMAGEPERF/TLI®

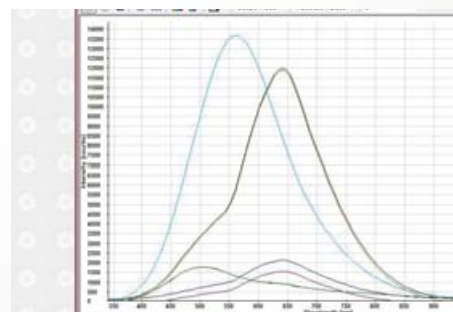*SECURITY FEATURES VISIBLE IN UV 365 NM*

COMPARATIVE ILLUSTRATION OF A DOCUMENT DETAIL
LEFT: FORGERY
RIGHT: ORIGINAL

IR LUMINESCENCE INVESTIGATION TOOLS TO DIFFERENTIATE PRINTING INKS
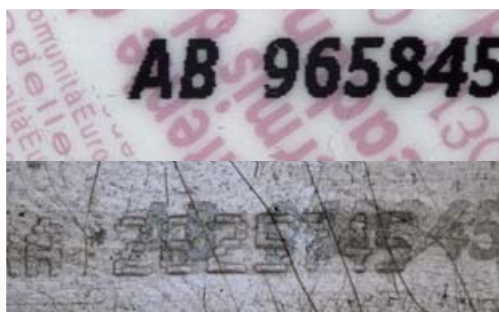
ALTERED DOCUMENT NUMBER VISIBLE IN VERTICAL SURFACE LIGHT
ABOVE: INCIDENT SURFACE LIGHT
BELOW: VERTICAL SURFACE LIGHT

COLOR SPECTROSCOPY MODULE SP-2000: SPECTROMETER FOR MEASURING OF COLOR SPECTRA, COLOR MEASURING OF L*A*B*/CIE COLORS

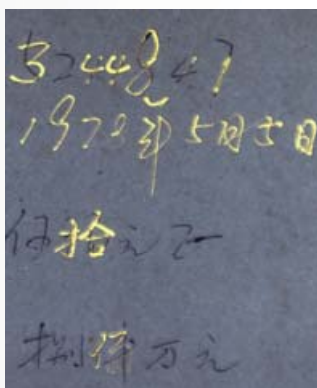**INVISIBLE PERSONAL INFORMATION (IPI) VISUALIZATION**

OVI OPTICAL VARIABLE INK ABOVE: ORIGINAL BELOW: FORGERY

MULTIPLE LASER IMAGE (MLI) VISUALIZATION WITH SIDE LIGHT

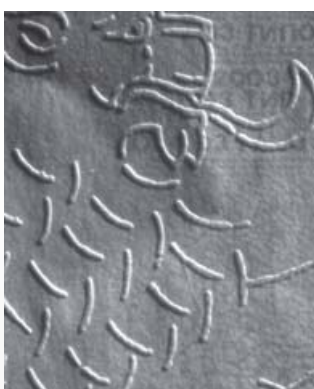**INVISIBLE INK VISUALIZATION WITH UV 254 NM**

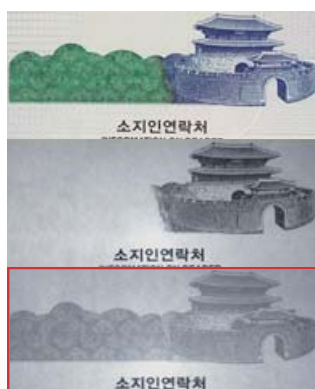**LATENT SECURITY ELEMENTS VISUALIZATION**

WIDE-BAND VISUALIZATION OF "ANTI-STOKES INKS"

LASER ENGRAVING; ORIGINAL AND FORGERY WITH SIDE LIGHT

INTAGLIO PRINTING VISUALIZATION WITH IR SIDE LIGHT

COMPARATIVE ILLUSTRATION WITH IR ABSORPTION ABOVE: ORIGINAL IN VISUAL LIGHT MIDDLE: IR 850 NM ABSORPTION BELOW: FORGERY

- Recording and storing of examination results via video sequences

- Spectroscopy measuring with 100% reproducibility and resolution of 6.4 nm (non-destructive investigation method)

- RFID chip reader (optional) for reading the chip information in travel documents

- Multi-Spectral Imaging Module and continuous interference filter

DOCUCENTER NIRVIS
ACCESSORIES

The Docucenter NIRVIS can be complemented with expertly-designed accessories, including the Pagscan Document Reader, an X/Y translation stage for optimized positioning of documents, a magnetic ink detector, quartz glass paper weights and a stereo-zoom microscope PAG 800.

MAGNETIC INK DETECTOR used to visualize magnetic ink in documents

MOTORIZED X/Y TRANSLATION STAGE
for optimized positioning of documents

The **PAG 800 STEREO-ZOOM MICROSCOPE** is equipped with a high-resolution digital camera.

PAGSCAN DOCUMENT READER
The standalone Pagscan document reader is designed to quickly and accurately read a wide range of documents.

- White and IR illumination
- Equipped with an RFID module
- Equipped with a Smart Card reader and magnetic stripe reader for items such as passports, visas, ID cards, driver's license, and 2D barcodes.

DOCUBOX HD

EXPANDABLE AND COMPACT WORKSTATION

The Docubox HD offers a streamlined concept that allows for the rapid, comprehensive and systematic examination of documents. Designed to respond to users' needs, the Docubox HD has in-depth examination tools combined with ultra-easy handling and user-friendly operation. Ideal for the quick and efficient investigation of travel documents, banknotes and security printed matter, the Docubox HD can be used in the field as well as in the laboratory.

With a compact design, the Docubox HD offers comprehensive investigation possibilities and boasts 14 integrated light sources, motorized 20x zoom optics and an IR-sensitive color camera with autofocus capabilities.

DOCUBOX HD FEATURES

CAPTURE BUTTON	Easy image capture on SD card.
SEQUENCE MODE	The Docubox HD automatically selects different light sources and inspection times and provides the results quickly.
INTUITIVE OPERATION	Easy controls via touch screen and jogger knob. The presets of various light sources makes capturing even more simple.
HIGHEST EFFICIENCY	Up to 200 control settings can be stored and restored via internal memory and via USB stick. This helps to standardize processes, simplify the workflow and reduce investigation time.

NANOPRINT

PROJECTINA FORENSIC SOFTWARE

THE INTELLIGENT SOFTWARE FOR COMPARISON, DOCUMENTATION AND ARCHIVING

By using the included software on a desktop or laptop, the Docubox HD becomes a complete system for documentation, comparison and measuring. Projectina software has a remote function that can be extended to operate the Docubox HD directly via a local network from your workplace. Image data and instrument settings can be stored and retrieved all at once.

ALL DOCUBOX HD FUNCTIONS ARE CONTROLLED VIA THE SOFTWARE INTERFACE OR REMOTE-CONTROL VIA PC. UP TO 200 INDIVIDUALLY-DEFINED SETTINGS ARE SELECTABLE.

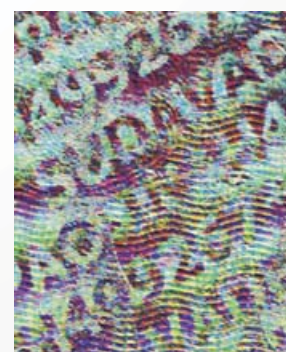*HORIZONTAL OR VERTICAL SPLIT COMPARISONS*

IR 740–1100 NM ILLUMINATION FOR "ANTI-STOKES INKS" EXAMINATION

VERIFICATION OF RETROREFLECTIVE SECURITY ELEMENTS

MEASURING OF DISTANCES, ANGLES, CIRCLE DIAMETERS AND ANNOTATIONS OF TEXT AND MARKS

INVISIBLE PERSONAL INFORMATION (IPI)

INSPEC 8

EASY DOCUMENT EXAMINATION

The INSPEC 8 has been specifically designed for second-level inspections at immigration checkpoints, banks, and police departments. With lateral openings, the INSPEC 8 is extremely easy to use and can be adapted to any user's skill level.

The INSPEC 8 uses full HD resolution (1920 x 1080) and an image capture function on SD card.

INSPEC 8 FEATURES

HD	High-resolution 1920x1080 images
EASY CAPTURE	Image capture function on 2x 4 GB SD card
WIDE RANGE IR	Visible alterations are easily examined under IR Luminescence and IR Absorption
HIGH EFFICIENCY	Up to 200 control settings can be stored and restored via internal memory and via USB stick

INSPEC 8 CAN OPERATE AT THE FOLLOWING WAVELENGTHS

FILTER USED FOR THE...	
UVA 365 NM	Identification of counterfeit watermarks, fluorescent UV security marks, and colored fibers.
UVC 254 NM	Visualization of fluorescent security marks at shortwave UV, with integrated security system
IR LUMINESCENCE 50 W	Viewing of distinguishing differences in inks or pencil leads, identification of primary and secondary entries (mechanical and chemical)
INFRARED / WHITE LIGHT 2X 20 W	Differences in inks or pencil leads with IR, ideal for examination of Guilloche, security printing inks, micro text, and latent image effects
FLAT LIGHT LED 3X3,5 W	Viewing of mechanical erasures, embossed stamps, intaglio printing, and OVD/OVI latent image effects
TRANSMITTED LIGHT 1X20 W AND UV 365 NM	Identification of mechanical erasures, safeguarding threads, watermarks, perforations, and see-through registers
VERTICAL SURFACE LIGHT (RETRO)	Identification of retroreflective security marks, coins, and metallic surfaces

INSPEC 5

COMPACT AND MULTIFUNCTIONAL VERIFICATION

This compact, portable and multifunctional desktop station is ideal for the visual examination of banknotes, and travel and identity documents, and can be used easily at immigration checkpoints, airports, banks and police departments.

INSPEC 5 FEATURES

LED LIGHTING	LED used for transmitted light, incident white light, flat and side lights, external flash light, and retro lighting.
UV LIGHTING	UV 365/313/254 nm surface light
MAGNIFICATION	10x zoom with separate magnifier
ADAPTABLE	Connects to a high-resolution digital camera

DMM 2000 FEATURES

MACRO / MICRO OPTICS	With low and high magnification range from 5x–2400x
CONNECTIONS	For X/Y object stages
ERGONOMIC	Height adjustment for 68 mm

DMM 2000

THE IDEAL DIGITAL INSTRUMENT FOR FORENSIC SCIENCE EXAMINATIONS

The Digital Measuring Microscope DMM 2000 with micro and macro optics is enhanced with several digital camera capabilities providing an outstanding image quality. It also boasts a modular and compact design and user-friendly controls. This versatile instrument is not only suitable for laboratory work, but also for teaching in various application areas, such as textiles, trace evidence, metallurgy, electronics, cables, precision engineering, food, paper, packaging, and plastics.

The DMM 2000 has been developed to meet the specific testing requirements of the textile industry as well as other industrial branches for material testing, quality control and documentation. The DMM 2000 can also be used to make both micro and macro enlargements while the unique combination of the high-resolution camera and the binoculars virtually eliminates operator fatigue.

PAG 800

HIGH-RESOLUTION STEREO-ZOOM MICROSCOPE

The PAG 800 offers crisp, high-resolution, high-contrast stereo images. With a 1:6.3 zoom ratio and a 115 mm (4.5 inches) working distance, the PAG 800 is the ideal choice for research workers that need sharper and stronger images.

PAG 800 FEATURES

FLEXIBLE	Multiple lighting options
WIDE MAGNIFICATION RANGE	8x to 50x; total magnification is 4x–200x
SEALED	Airtight construction prevents contamination from dust, oil, water, and mold in hot, humid environments.
CAMERA	Wide range available

DOCUSTAT DS-220

FOR THE VISUALIZATION OF INDENTED WRITING ON DOCUMENTS

The Docustat DS-220 allows investigators to visualize indented writing on documents using the electrostatic imaging process. Many times more sensitive than the oblique lighting technique, the Docustat DS-220's larger unit size (450 x 440 mm), allows it to be used for both small and large sheets. The supplied plastic film, type IW, is used for securing the indented writing (grooves) from different kinds

DOCUSTAT DS-220 FEATURES

RESPONSIVE	Reveals indented writing and ignores visible script
EASY CLEANUP	Easy to empty toner with a tilting and collection device
EASY DOCUMENT PREPARATION	Equipped with a document humidifier to increase document sensitivity
CORONA	Use of corona exposure can be timed and have voltage presets
SAFE	Ventilation for airborne toner particles
EQUIPPED	Optional toner pads available

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Visit **www.ForensicTechnology.com** or **www.projectina.ch** for more information.

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