

PROJECTINA

SPECTRA
PRO

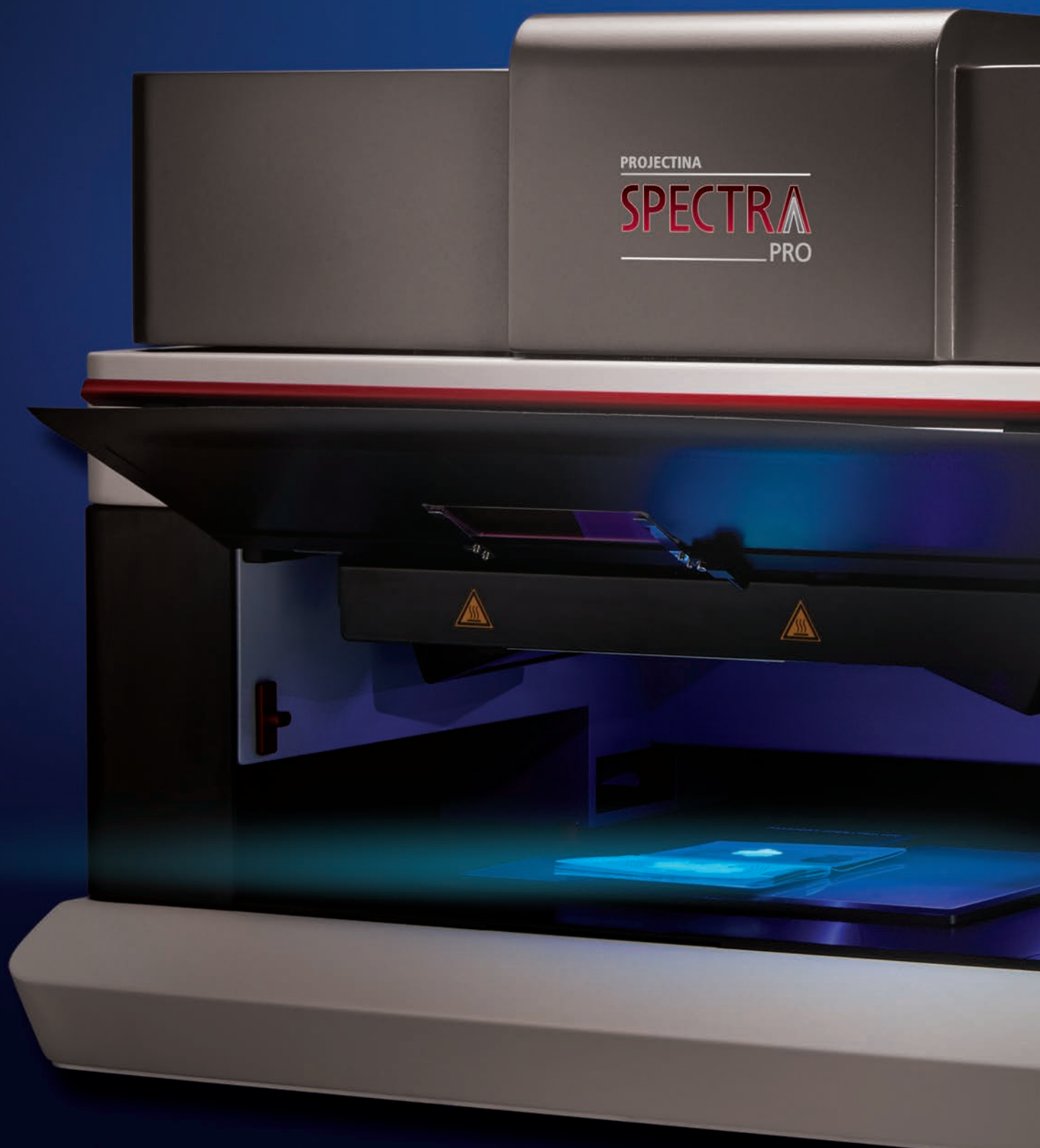
THE ULTIMATE DOCUMENT EXAMINATION SYSTEM



STATE-OF-THE-ART SPECTRAL ANALYSIS

FORENSIC LABS • SECURITY PRINTERS • IMMIGRATION AUTHORITIES

WHEN DETAILS MATTER



PROJECTINA **SPECTRA PRO**

The Ultimate Document Examination System



In the world of document examination, the ability to see the smallest of details is paramount.

With **superior optics, exceptional imaging** and **advanced technology**, **Projectina Spectra Pro** is the **definitive solution** for examining even the **subtlest forms** of tampering or **most sophisticated counterfeits**.

Spectra Pro can also be equipped with a **wide range of accessories and modules** to suit any document examination **application**.

EXCEPTIONAL IMAGING

Spectra Pro incorporates class-leading optical technology to provide unprecedented image quality and enhanced viewing options.

VIEW REMARKABLY SHARP IMAGES AT ALL WAVELENGTHS

Spectra Pro's state-of-the-art digital camera provides clear, high resolution imaging throughout the full spectral range. The camera's extreme sensitivity in wavelengths between 350 and 1100 nm means infrared images are crisper and regions of interest are easier to examine.

EXAMINE MICROTTEXT EASILY

Spectra Pro's industry-leading optical magnification of up to 335x enhances the ability to inspect microtext, fibers and other microscopic security features.

SEE MORE, SAVE TIME

A broader field of view makes it easier to view multiple or larger regions of interest, and also means less time spent repositioning documents.

ENJOY A BETTER USER EXPERIENCE

A fast USB 3 connection combined with the latest software means zero lag and instantaneous image refresh when adjusting lighting or document positioning.



IR IMAGING



HIGH MAGNIFICATION IMAGES

EFFICIENT WORKFLOW

Forensic document examination is precise, meticulous work. **Spectra Pro** has been expressly designed to facilitate ease-of-use and increase productivity while maintaining the most exacting quality standards.

The end result? A better user experience that lets you focus where it matters most.

INCREASE PRODUCTIVITY

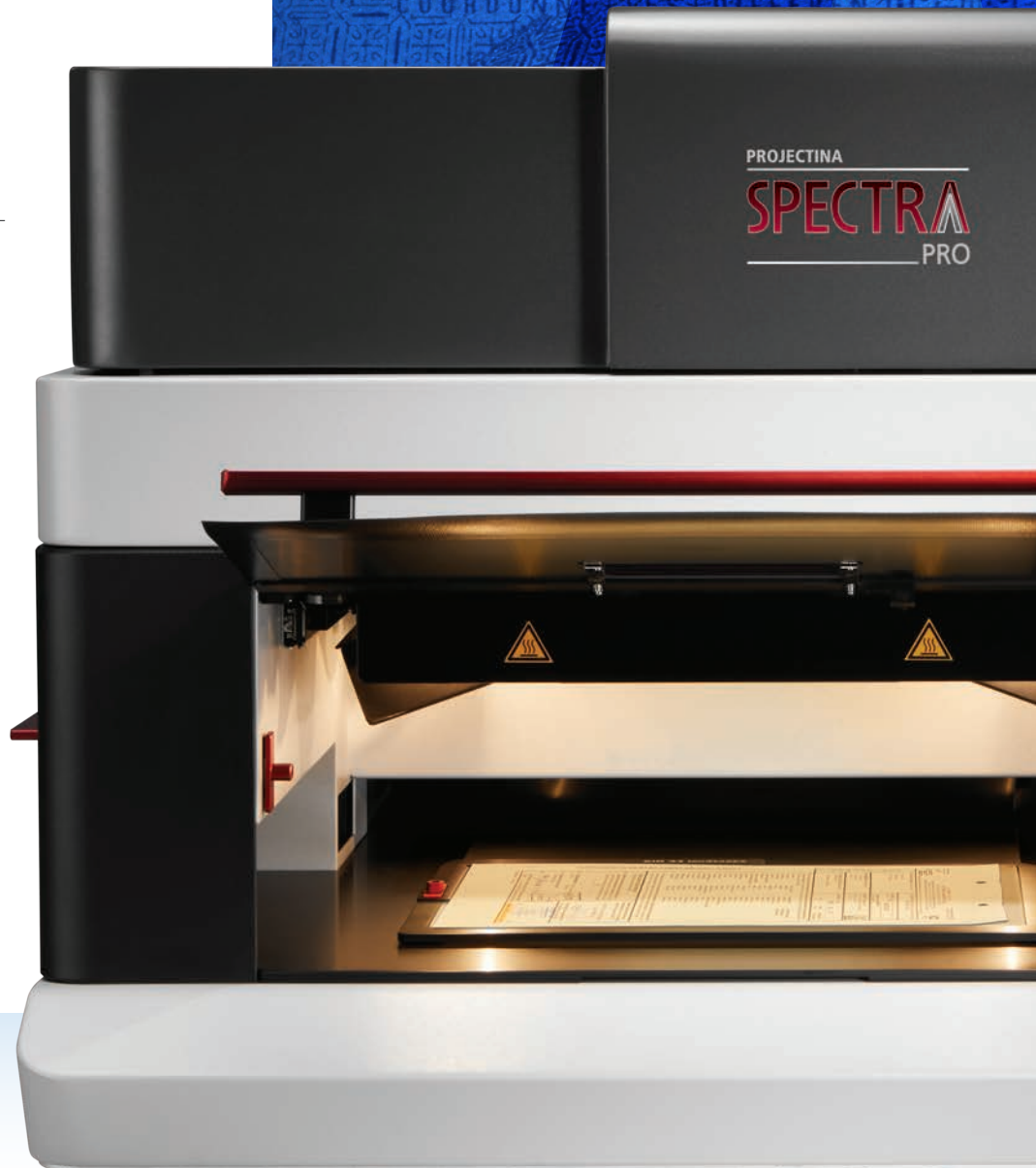
The Spectra Pro can be programmed to create any number of inspection sequences so predefined processes can be automated—an incredible time-saver for routine or bulk examination.

STREAMLINE EXAMINATION

Spectra Pro's newly designed, motorized X/Y Translation Stage, which also boasts a greater range of movement, makes it easier and faster to inspect multiple regions of interest. With its automated remote control, users will also spend less time manually repositioning documents and more time examining.

REFOCUS FASTER

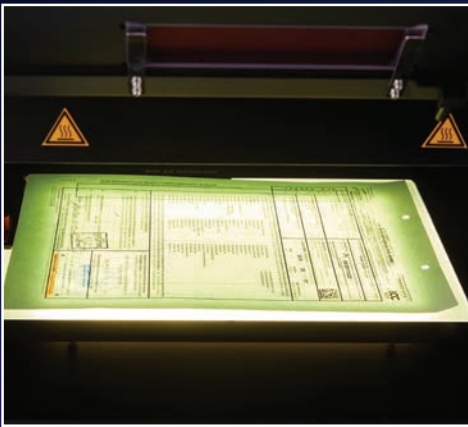
A unique Spectral Focusing feature allows Spectra Pro to automatically refocus with greater speed and precision when changes are made to lighting and magnification.



FULL-SPECTRUM LIGHTING

Spectra Pro's multiple light sources, including cool-running LEDs and extensive number of emission filters, give examiners the ability to create the precise lighting conditions needed to examine any security feature—no matter how advanced.

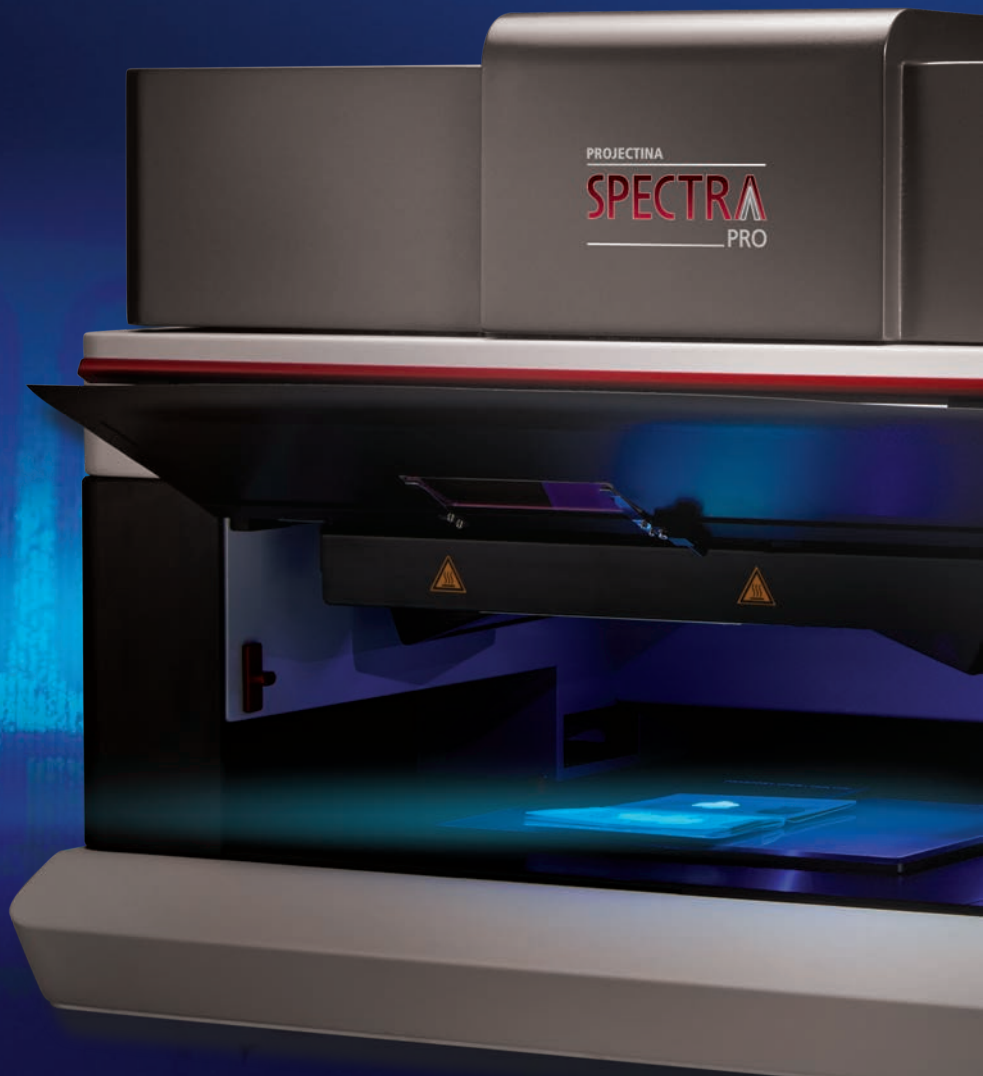
- UV activated security features
- OVDs, holograms and kinegrams
- Anti-Stokes inks
- Retro-reflective features
- Optically variable inks
- Phosphorescent inks
- Watermarks
- Laser images and engravings
- Latent images
- Birefringent features
- Stamps and embossing
- Fibers and other paper security features



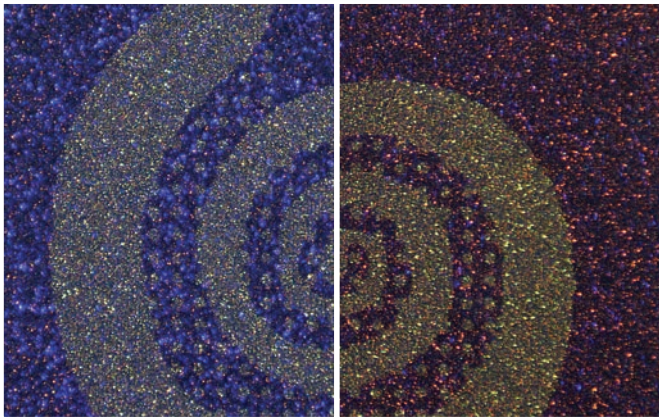
TRANSMITTED LIGHTING



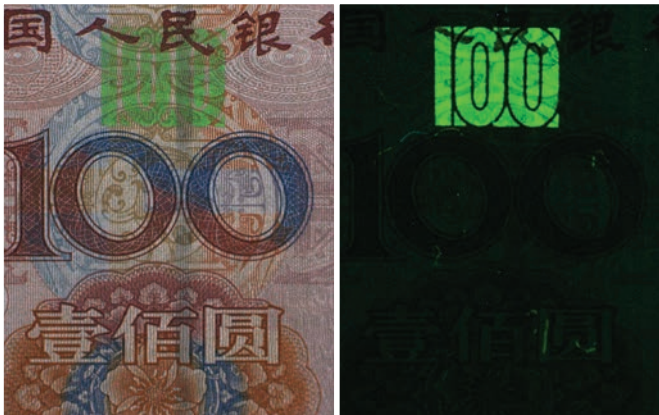
MICROTEXT UNDER
HIGH MAGNIFICATION



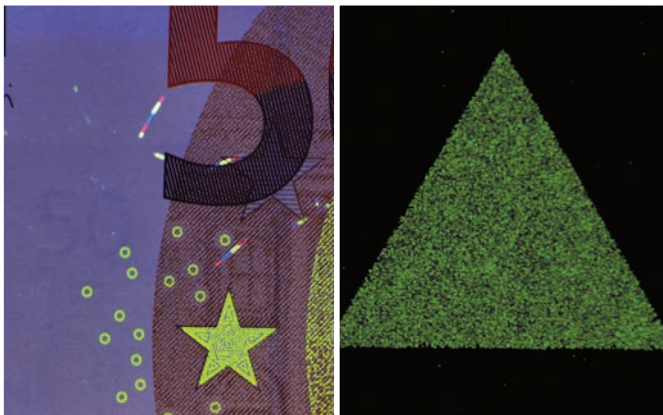
IN-DEPTH INSPECTION



POLARIZED FEATURES



ANTI-STOKES SECURITY FEATURES



UV INK AND FIBERS

PHOSPHORESCENCE



HOLOGRAM WITH LED RINGLIGHT



IR LUMINESCENCE



VERSATILE VIEWING

RAPID RESULTS

Spectra Pro provides examiners with the full range of features needed for the comprehensive inspection, authentication, and quality assurance of passports, ID cards, security and legal documents, banknotes and cheques.

FORENSIC LABORATORIES

Spectra Pro's high-precision Spectroscopy and Hyper Spectral Imaging modules help examiners to easily detect and record alterations, forgeries and counterfeit documents.

HYPER SPECTRAL IMAGING

Distinguish inks and highlight spectral differences across a user-defined spectrum with a continuous 400–1000 nm infrared bandpass filter and imaging system.

SPECTROSCOPY

Identify minute differences in inks and papers using spectral analysis that can assess precisely to 2.4 nm resolution, within a range of 360–1100 nm.

SECURITY PRINTERS

With a complete software suite and user-friendly modular design, Spectra Pro is ideal for measuring and verifying the multiple demanding quality standards applied to banknotes, passports, visas and other legal documents.

IMPLEMENT EFFICIENT, HIGH-PRECISION QUALITY CONTROL

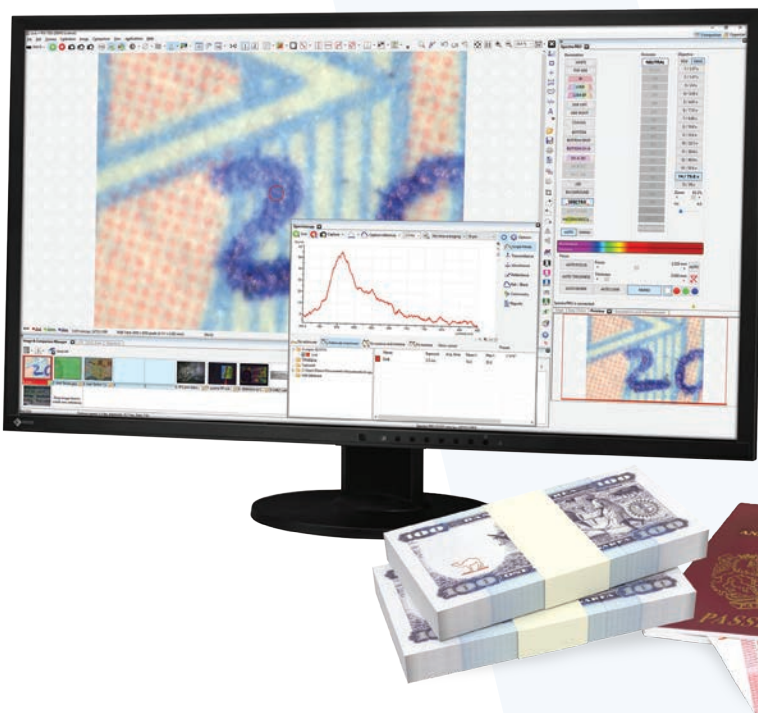
Now with a greater range of motion, the X/Y Translation Stage allows users to create large, high-resolution images and automate examination sequences, saving enormous time and effort.

ACCESS WITH EASE

Thanks to Spectra Pro's easily removable side panels, there is no need to cut or alter large currency sheets or other oversized materials in order to view regions of interest.

SEE MICRO-FEATURES CLEARLY

Optical magnification up to 335x (30" monitor) allows for easy inspection of microtext and other microscopic security features.





OPTIONAL MODULES AND ACCESSORIES

EXAMINATION ACCESSORIES



OVI MIRROR

View color shifts in Optically Variable Inks



MAGNETIC INK PROFILER

Visualize magnetic inks, with USB connection and software



EDGE SEAL MIRROR

View laser engraving on sealed edges of ID cards



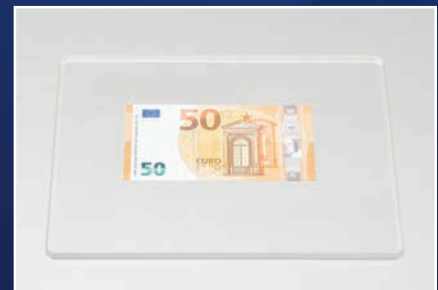
CARD HOLDER

Hold standard size ID cards for UV examination



TILT PLATE

View and record OVDs, holograms and kinegrams



QUARTZ GLASS PLATE

Flatten documents and prevent movement during examination
250 mm x 200 mm x 6 mm



PAGSCAN

Scan MRZ and barcodes on passports, read RFIDs and smartcards, with USB connection and software



MICROSCOPE OPTION

PAG 1000 STEREO MICROSCOPE

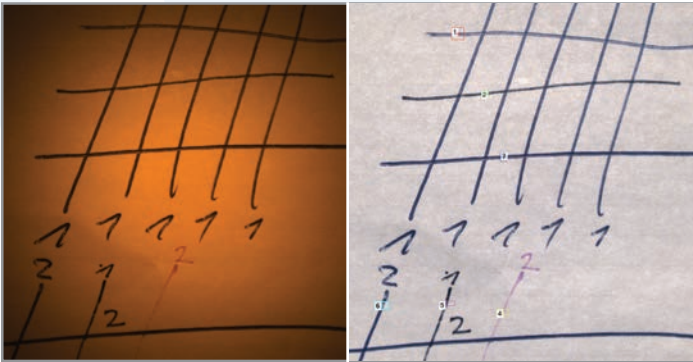
Versatile stereomicroscope with 8x optical zoom for total magnification of up to 60x and optional high-resolution digital camera.

Ergonomic binocular tilts from 0 to 30 degrees for examiner comfort. Includes two spotlights and ringlight with 4 selectable segments.

Additional options available.

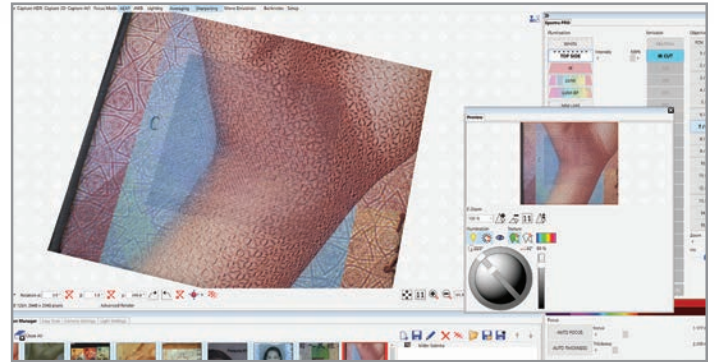
SOFTWARE MODULES

HYPER SPECTRAL IMAGING



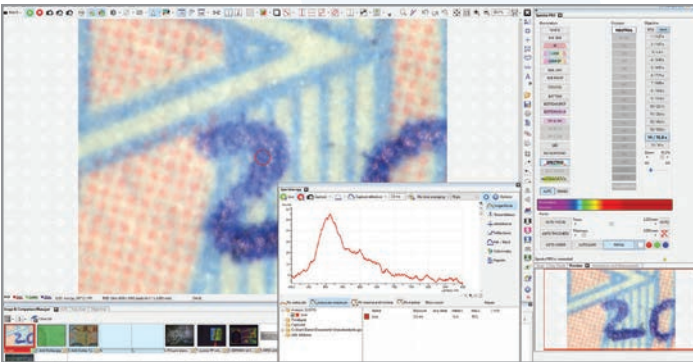
Distinguish inks and highlight microscopic spectral differences across a user-defined spectrum with a continuous 400–1000 nm Infrared bandpass filter and imaging system.

EXTENDED DEPTH OF FOCUS (EDF)



Capture an all-in-focus 3D image, simulate lighting angles and intensities, use the rendering to show details in reports and highlight differences in textures, or view on screen with included 3D glasses.

SPECTROSCOPY



Identify minute differences in inks and papers using spectral analysis, precise to 2.4 nm resolution, within a range of 360–1100 nm. Includes Spectrometer and software.

3D LIGHTING



View indentations and textures by acquiring images with four oblique lighting angles simultaneously. Highlight and visualize differences by applying virtual lighting and color processing.

DATABASE MODULE

Catalog and search through collected images using metatags and class characteristics.

TRAVEL DOCUMENT AND BANK NOTE DATABASES

Compare with thousands of reference images of collected passports and banknotes.

BARCODE AND MRZ DECODER

Read 1D and 2D barcodes, MRZ information and more on passports—no additional hardware is needed.

LETTERSCREEN++[®] AND DIGITAL IPI[™]

Decode proprietary Letterscreen++ and Digital IPI on passports.

TECHNICAL SPECIFICATIONS

POWER

Switchable Power Supply:

115 Volt 60 Hz +/- 10% or 230 Volt 50 Hz +/- 10%

Max. Consumption: 400 Watts

DIMENSIONS

Approximate Weight: 87 kg

Approximate Dimensions: 959 mm x 607 mm x 588mm (W x D x H)

IMAGING

Magnification: Up to 335x on 30" Monitor

Max. Field of View: 224 mm x 168 mm

Camera: USB 3.1 connection, Ultra IR sensitive CMOS

LIGHTING

Visible / IR Lighting:

Incident / Flood, Top Side, Side Left / Right,
LED Ringlight Array, Retro / Coaxial

UV Lighting: UVA 365 nm, UVB 313 nm, UVC 254 nm

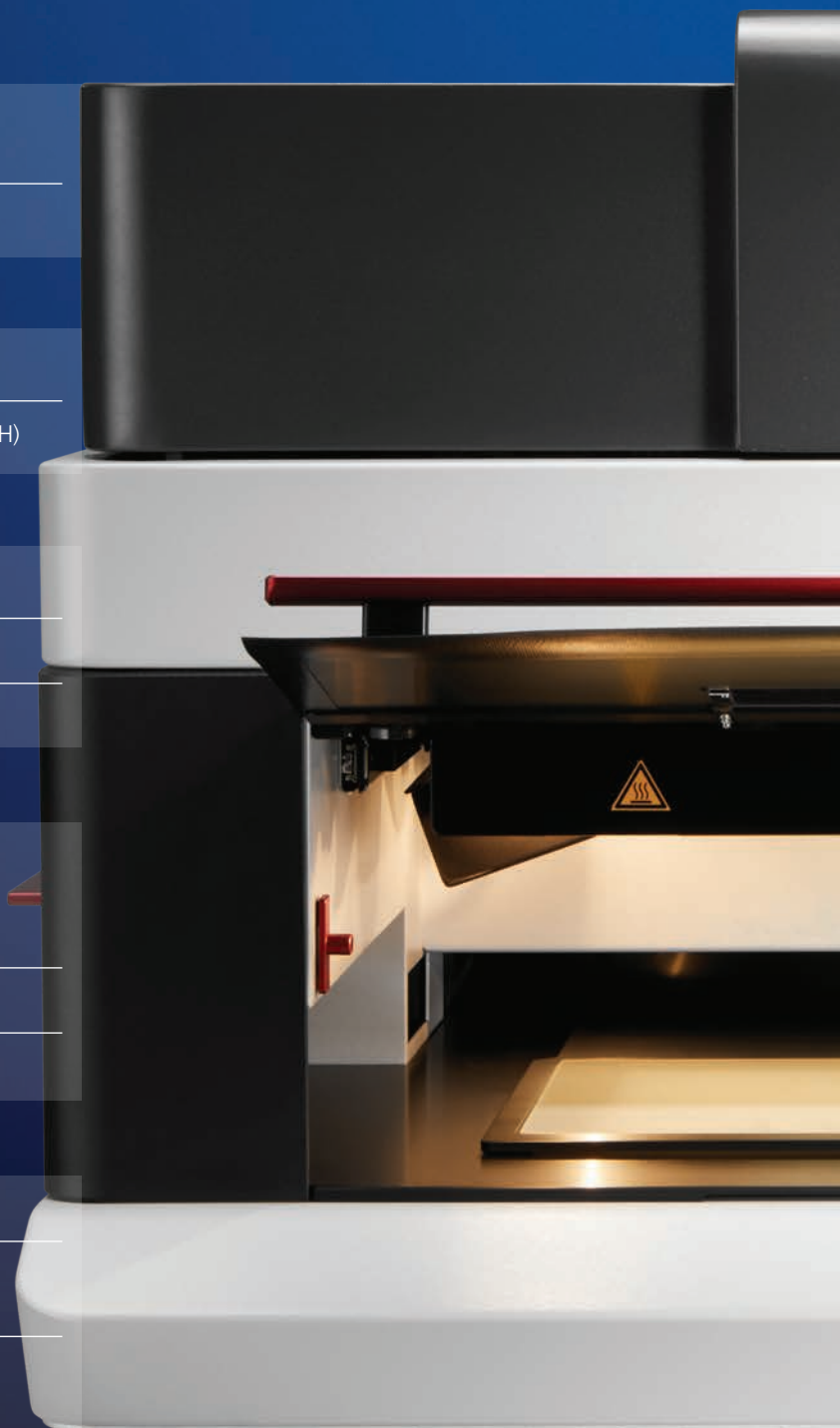
Transmitted Light: Visible / IR, Spotlight, UVA 365 nm

IR LUMINESCENCE

113 Emission Filter Combinations

15 High Pass Filters: 380, 420, 435, 455, 475, 495, 515, 530,
550, 570, 590, 610, 630, 645, 665 nm

11 Low Pass Filters: 420, 450, 490, 530, 570, 620, 650, 680,
720, 730 and 800 nm



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