

PROJECTINA

SPECTRA
FLEX

THE FLEXIBLE DOCUMENT EXAMINATION SYSTEM



MULTI-APPLICATION SPECTRAL ANALYSIS

FORENSIC LABS • IMMIGRATION AUTHORITIES • BANKING

projectina[®]

DOCUMENT EXAMINATION TAILOR-MADE FOR YOUR APPLICATION



THE FLEXIBLE SYSTEM REVOLUTIONIZING THE MID RANGE

Projectina Spectra Flex introduces features not previously available in the compact category, all within a modular design that provides examiners with the options they need.

Spectra Flex is available with FlexBand MSL™ technology, and the all new Halo Ringlight™ as well as a motorized stage and extra-large A4/Letter field-of-view for single-click capture of large documents such as bills of lading, vehicle registration papers, identity documents and more.

And it's modular: agencies that don't need the full range of options can choose the features they want for their specific application.

This flexibility results in greatly-reduced cost-of-ownership, and makes **Spectra Flex** the wise choice for a wide range of organizations.



ADVANCED TECHNOLOGY

HIGH MAGNIFICATION

Magnification up to 108x allows examination of microprinting, paper structure, fibres, and perforations.

ADVANCED IMAGING

With A4 capture capabilities, Spectra Flex speeds up and simplifies the process with an extra-large field of view that captures full-sized documents such as bills of lading, breeder documents, and open passports, in one click.

USB

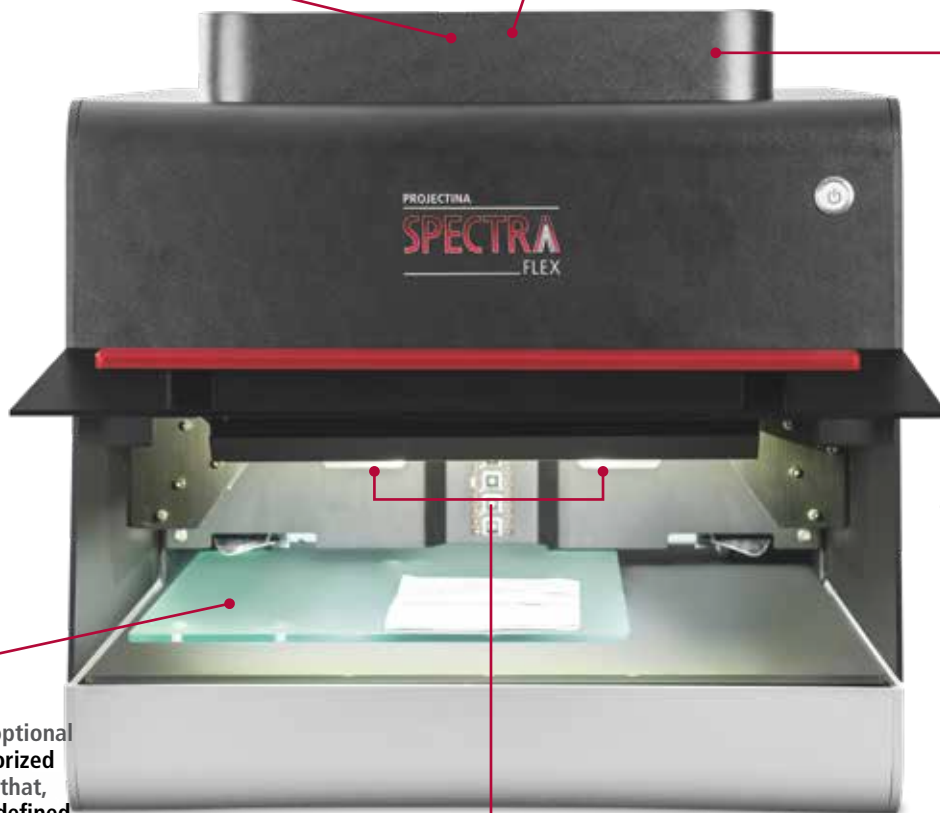
Multiple USB ports, including a convenient top USB slot, allow for easy file transfer and connection of external devices such as cameras for stereoscopes. Images from connected devices can be viewed using the Spectra Flex software.

BOOST THE EXAMINATION WORKFLOW

Spectra Flex has an optional state-of-the-art motorized XY translation stage that, combined with user defined presets, stores the exact position of security features that need to be examined and analyzed on bank notes, passports, travel documents, etc. By moving to predefined positions on a document with precision and no need for manual interference, examiners can spend less time positioning and more time analyzing.

SUPERIOR ILLUMINATION

Spectra Flex's all-LED lighting gives examiners the ability to create the precise lighting environment needed to examine even the most advanced security features. This includes a 46-LED Halo Ringlight™ with automated rotation, as well as all new FlexBand MSL™ LEDs that can be individually selected, dimmed, and combined for precise replication of color spectra for viewing ink differences and IR luminescent security features.



ENHANCED FUNCTIONALITY

OPTIONAL EMISSION FILTERS

Choose between **8 and 15 emission filters** depending on the need and application.

EMBEDDED PC

Spectra Flex contains an **embedded PC and full software suite**. Save space, increase mobility, and focus on inspection without having to worry about operating systems, updates and obsolescence. Simply connect a monitor, mouse, and keyboard to get started.

NETWORK COMPATIBILITY

Save images directly to **shared network locations** or access locally stored images from other network stations.



TRANSMITTED LIGHTING

Bottom transmitted **white light, UVA light** as well as a **high intensity spot light** allows viewing of watermarks and other covert security features.

THICK DOCUMENTS

Capture images of books, thick documents and other large objects **up to 120 mm thick** with automatic focal height adjustment and large examination area.

SIDE OPENINGS

Examine extra large documents simply by opening **side and back doors**, without the need to damage or fold documents.

FULL-SPECTRUM LIGHTING

Spectra Flex offers all-LED* lighting options, so agencies can choose the lighting they require for their specific application.

BENEFITS OF ALL-LED LIGHTING:

- LEDs have a much longer lifespan with a much lower overall energy draw
- Eliminates the need to monitor lamp lifetimes and change bulbs
- LED arrays are more robust
- Small LEDs provide more workspace allowing examiners to reproduce the exact lighting conditions they require



SIDE LIGHT

Left and right side lights can be simultaneously or separately engaged to show paper structures and mechanical surface alterations such as cuts and pastes, and to visualize latent printing techniques.

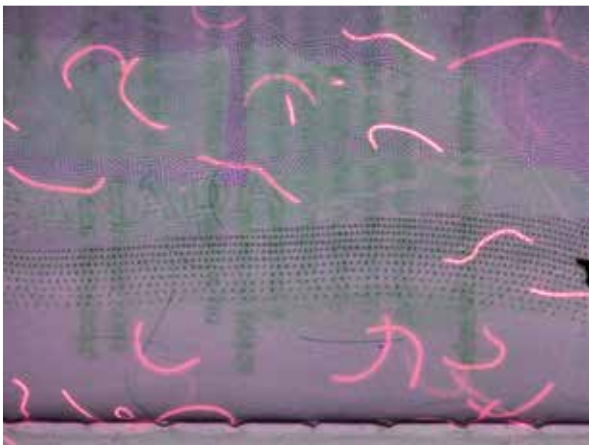


COAXIAL LIGHTING

Coaxial or retro reflective lighting is available for examining surface structures of reflective elements.

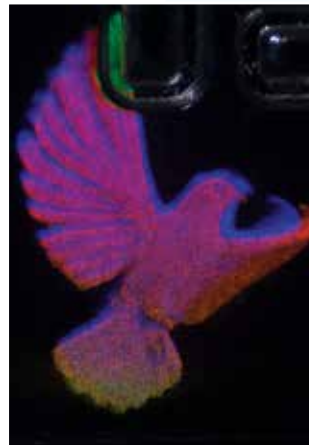


SEE EVERY **DETAIL**



FLEXBAND MSL™ TECHNOLOGY

FlexBand MSL (Multi Spectral Lighting) technology provides narrow band LEDs that can be dimmed and mixed for narrow band IR luminescence applications, such as viewing security features and different luminescent ink properties. Together with 8 or optionally 15 emission filters, examiners can visualize minute differences with precise conditions.



THE HALO RINGLIGHT™

Spectra Flex features a unique and powerful 46-LED Halo Ringlight with individually selectable LEDs and segments that can be rotated with variable speed and captured in a video sequence. Examiners can pause and playback to see different refractive results on optically variable devices such as holograms and Kinegrams™ to visualize and capture irregularities.



ULTRA-VIOLET LIGHTING

Visualize shortwave security features under UVA, UVB and UVC lighting, as well as a transmitted (bottom) UVA option for hidden and translucent UV features.



LIVE ANTI-STOKES

High intensity IR LEDs allow the examiner to visualize a live image of Anti-Stokes ink, allowing them to optimize placement for capture while the feature is illuminated.

* UVB and UVC lighting provided with fluorescent tubes.

MODULAR SYSTEM

MULTIPLE APPLICATIONS

Spectra Flex combines industry-leading technology with flexible modular configuration options so that examiners in a variety of fields can conduct comprehensive examination of questioned passports and other travel documents, identification papers, security and legal documents, and currency.

IMMIGRATION AND BORDER AUTHORITIES

Spectra Flex's advanced spectral analysis technology allows 2nd line immigration and border authorities to perform in-depth analysis of questioned documents detected in the 1st line.

- Image full A4/Letter documents including bills of lading, commercial invoices, and vehicle registration papers
- Capture full open passports

INSURANCE AND BANKING

With its full software suite, **Spectra Flex** is the ideal tool for verifying security features associated with banknotes and financial documents.

- Verify currency by easily visualizing security features to quickly detect suspected counterfeits
- Authenticate applicants by easily verifying ID documents, transcripts, and cheques



FORENSIC LABORATORIES

Spectra Flex's range of spectral imaging modules help document examiners easily detect and record even the slightest alterations on questioned documents.

- Verify printing techniques with high magnification on documents and currency
- Confirm forgeries on documents such as contracts, birth certificates, and transcripts
- Capture images of falsifications for records and casework



OPTIONAL MODULES AND ACCESSORIES

EXAMINATION ACCESSORIES



OVI MIRROR

View color shifts in Optically Variable Inks



EDGE SEAL MIRROR

View laser engraving on sealed edges of ID cards



TILT PLATE

View and record OVDs, holograms and Kinograms



PASSPORT READER

Read RFID, MRZ, Barcodes and Smartcards

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 FEATURES

The all-new **Spectra Flex** software suite gives examiners more features and tools than ever before, without the need for an external computer – everything is built-in.

SOFTWARE FEATURES

COMPLETE REMOTE CONTROL

- › Control magnification, lighting, filters and stage movements
- › Capture images and store them in the internal file manager or transfer them easily to USB

ANNOTATIONS AND MEASUREMENTS

- › Annotations and calibrated measurements can be applied directly to live and captured images
- › Choose font color and size, change color of shapes, fill and outlines, and choose whether or not to save and print the notes with the image

AUTOMATED IMAGE INFORMATION

- › Images can be automatically stamped with metadata such as time and date, filename, image processing applied, magnification, lighting and more

COMPARISON TOOLS

- › Comparison mode allows the examiner to compare a live image to a stored or reference image with a vertical, horizontal or polygonal split line
- › Save snapshots of the comparison for reference and sharing

REFERENCE DATABASE

- › Travel document and currency reference databases available
- › Images can be automatically imported into the Spectra Flex software for comparison and reference

TRAVEL DOCUMENTS

- › External passport reader for MRZ, barcodes, smartcards and more
- › Software module for IPI, ICI, Letterscreen++

HDR

- › High Dynamic Range image capture allows optimal image exposure for high reflectance or uneven surfaces



TECHNICAL SPECIFICATIONS

POWER

Power Input: 100 -240 Volt 50/60 Hz

Power Rating: 500 Watts

DIMENSIONS

Approximate Weight: 35 kg

Approximate Dimensions: 496 mm x 600 mm x 496mm (W x D x H)

OPTICS

SUGGESTED MODELS

Lite Standard Advanced

Optical Magnification up to 108X on 27" monitor	X	X	X
Max Field of View 174 mm x 98 mm	X	X	
Max Field of View A4/letter 300 mm x 222 mm			X

EMISSION FILTERS

8 filters 580 nm, 630 nm, 700 nm, 735 nm, 780 nm, 1000 nm, neutral 420-1100nm and IR CUT filter	X		
15 filters 550 nm, 565 nm, 580 nm, 610 nm, 630 nm, 640 nm, 670 nm, 700 nm, 720 nm, 735 nm, 780 nm, 830 nm, 1000 nm, Neutral 420-1100nm and IR CUT filter		X	X

LIGHTING

White Light	X	X	X
IR Light	X	X	X
Side Light	X	X	X
UVA	X	X	X
Halo Ringlight™ (46 LEDs)	X	X	X
FlexBand MSL™ White, Violet, Blue, Cyan, Green, Amber and Red LEDs, dimmable and selectable individually or create combinations	X	X	X
Transmitted (Bottom) white	X	X	X
Transmitted (Bottom) UVA	X	X	X
UVB, UVC		X	X
Retro/Coaxial		X	X
Anti-Stokes		X	X

TRANSLATION STAGE

Motorized XY Translation Stage	Optional
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TRAVEL DOCUMENTS MODULE

External passport reader with software module for MRZ, Barcodes, IPI, ICI, digital IPI, Letterscreen++ and RFID chip reading	Optional
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