

PROJECTINA

SPECTRA
FLEX

**THE FLEXIBLE
DOCUMENT EXAMINATION AND
SCANNING SYSTEM**



projectina®



**MULTI-APPLICATION
SPECTRAL ANALYSIS FOR
FORENSIC LABORATORIES,
IMMIGRATION AUTHORITIES,
INSURANCE AND BANKING**

The Spectra Flex introduces features not previously available in the mid range category, all within a modular design



**SUPERIOR
OPTICAL IMAGE
QUALITY**
CRYSTAL CLEAR
IMAGE FROM EDGE
TO EDGE WITH
INTEGRATED
AUTOFOCUS

**EASY CHECK &
EASY SCAN**
FULLY AUTOMATIC
RESULTS AT ONE
CLICK.



HALO RING LIGHT
VISUALIZE ANY
HOLOGRAM,
KINEGRAM AND
OVD/OVI

**BUILT-IN
CONTROL UNIT**
COMPACT
SYSTEM, WITHOUT
THE NEED FOR AN
EXTERNAL
COMPUTER



MAGNIFICATION
UP TO 108x

**MOTORIZED X/Y
TRANSLATION
STAGE**
STORES DIFFERENT
POSITIONS



**SUPERIOR
ILLUMINATION**
ALL-LED LIGHTING

**ADVANCED
IMAGING**
A4 CAPTURE
CAPABILITIES
FOR LARGER
DOCUMENTS OPEN
SIDE AND BACK
DOORS



MULTIPLE USB PORTS
FOR EASY FILE
TRANSFER AND
CONNECTION OF
EXTERNAL DEVICES



**EMBEDDED PC AND
FULL SOFTWARE
SUITE**
SAVE SPACE AND
INCREASE MOBILITY



**HIGH
DOCUMENTS**
CAPTURE LARGE
OBJECTS UP TO
120 mm THICK



**REMOTE
COLLABORATION**
REMOTE EXAMINATION
AND VERIFICATION IN
REAL TIME

DOCUMENT EXAMINATION TAILOR-MADE FOR YOUR APPLICATION

Projectina **Spectra Flex** provides examiners with all options they need.

Spectra Flex is equipped with FlexBand MSL™ multispectral illumination and a unique Halo Ringlight™. With integrated autofocus for focussed fast image display. In addition, a motorised X/Y-positioning table and an extra large field of view in A4 format are integrated, which allows one-click capture of large documents such as bills of lading, vehicle registrations, personnel documents and much more. The built-in X/Y-stage is an outstanding scanner solution for capturing high-resolution images in combination with the integrated light sources.

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, such as forensic laboratories, immigration authorities and banks.



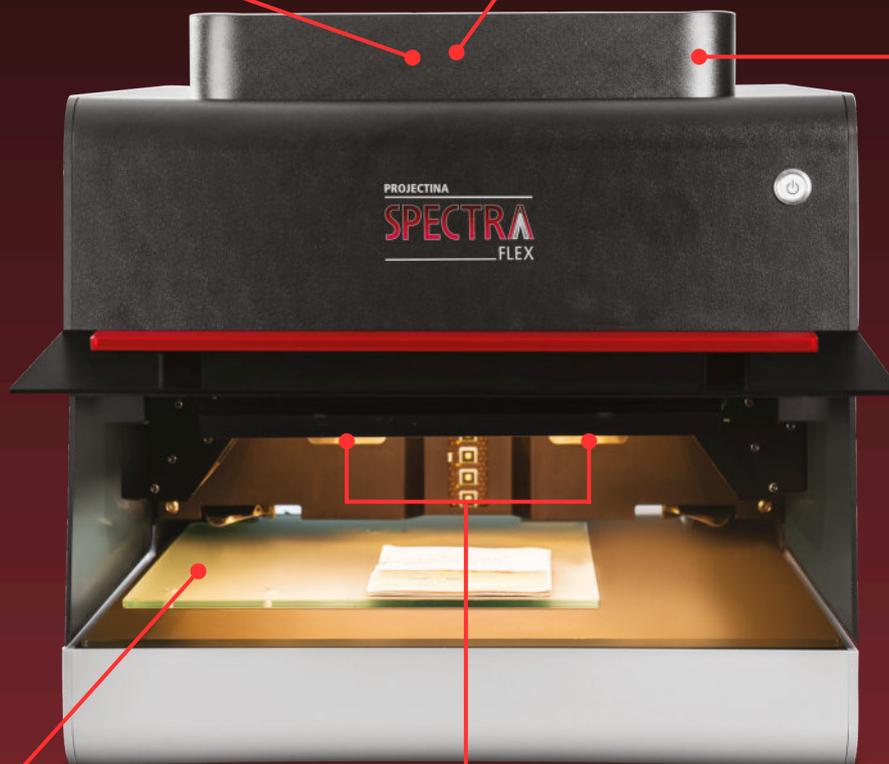
ADVANCED TECHNOLOGY

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.



BOOST THE EXAMINATION WORKFLOW

Spectra Flex has an optional state-of-the-art motorized X/Y translation stage providing a high resolution scanner solution for capturing hires images with integrated light sources. Combined with user defined presets, it 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.

USB

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.

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 colour 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/IR light, UVA light as well as a high intensity spot light allows viewing of watermarks and other covert security features.

SIDE OPENINGS

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

HIGH DOCUMENTS

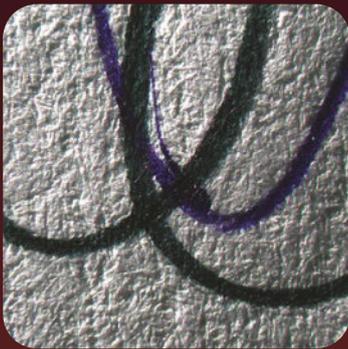
Capture images of books, high documents and other large objects up to 120 mm thick with automatic focal height adjustment and large examination area.

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.

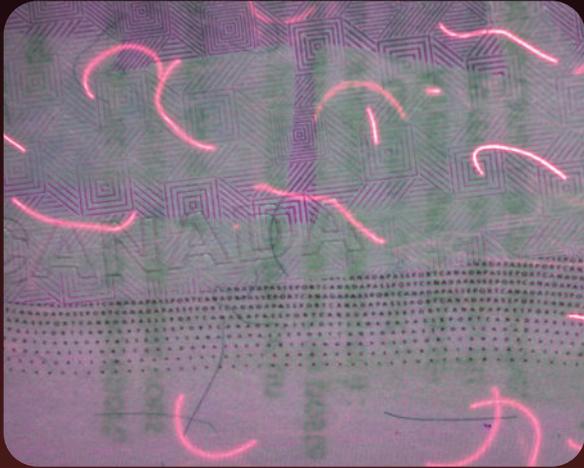


IRT (INFRARED TRANSMISSION LIGHT)

Neutralisation of the security backgrounds TD1 and TD3 and visualisation of the transparency window with just one click.

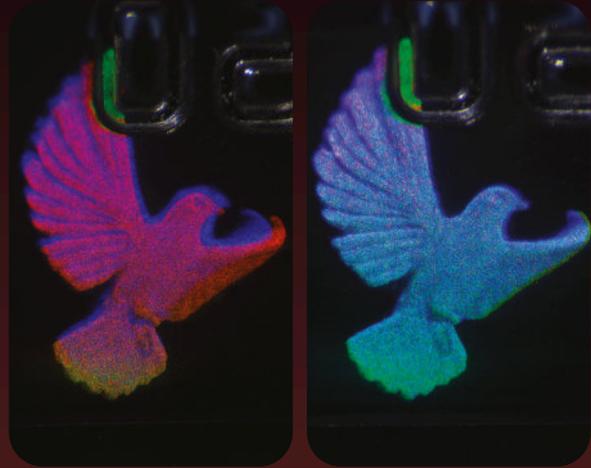


SEE EVERY DETAIL



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.



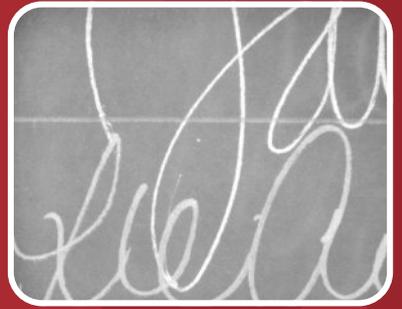
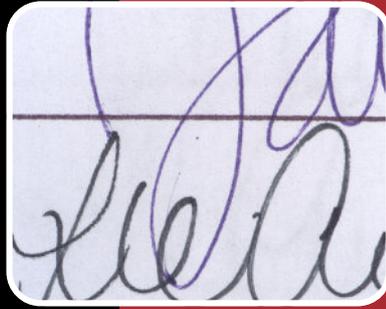
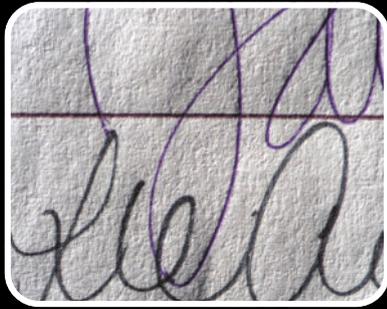
LIVE ANTI-STOKES

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.



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.



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 MODULE
View colour shifts in
Optically Variable Inks



EDGE SEAL MODULE
View laser engraving on
sealed edges of ID cards



TILT PLATE
View and record OVDs,
holograms and Kinograms



**E-PASSPORT READER
PAGSCAN 2000**
Read RFID, MRZ, Barcodes
and Smartcards

MICROSCOPE OPTION

PAG 800 STEREO MICROSCOPE INCL. HIGH-RESOLUTION USB 3 CAMERA

Versatile stereo microscope with 8-50x optical zoom for up to 50x magnification and optional high-resolution digital camera.

Includes two spot lights and a ring light with 4 selectable segments.

This additional image option is directly available in the Spectra Flex software.



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 colour and size, change colour 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

IRT INFRARED TRANSMISSION LIGHT

- New illumination for verification of see-through windows in identity cards/passports in IR and transmitted light by one click.

TRAVEL DOCUMENTS

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

HDR

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

CAPTURING HIGH RESOLUTION IMAGES

- High resolution scanning solution for capturing high resolution images using the integrated light sources together with the X/Y translation stage.



TECHNICAL SPECIFICATIONS

POWER

Power Input: 100-240 V 50/60 Hz

Power Rating: 500 W

DIMENSIONS

Approximate Weight: 35 kg

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

OPTICS

Optical Magnification: up to 108x on 27" monitor, up to 95x on 24" monitor

Max Field of View: 174 mm x 98 mm

Max Field of View A4/letter: 300 mm x 222 mm

SUGGESTED MODELS

Lite Standard Advanced

	Lite	Standard	Advanced
Optical Magnification: up to 108x on 27" monitor, up to 95x on 24" 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 - 1100 nm and IR CUT filter

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 - 1100 nm and IR CUT filter

	Lite	Standard	Advanced
8 filters 580 nm, 630 nm, 700 nm, 735 nm, 780 nm, 1000 nm, neutral 420 - 1100 nm 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 - 1100 nm and IR CUT filter		X	X

LIGHTING

	Lite	Standard	Advanced
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 X/Y Translation Stage (scanner solution) Optional

TRAVEL DOCUMENTS MODULE

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

