

## **DOCUCENTER Expert**

The leading Spectral Analysis System  
for document examination



# DOCUCENTER Expert

## Systematic Examination easy and efficient

The DOCUCENTER Expert supports the user in the systematic examination of complex security features in documents. Our ongoing investments and development efforts to meet the increasing demands of document experts allows us to once again set the standard and meet all the latest requirements in a new generation of instruments.

### Extensive document examination

The DOCUCENTER Expert allows the examination of all kinds of security features to meet with the latest developments of security printing manufacturers. As an example the Polarisafe® feature of Landart should be mentioned. The checking of ICAO codes or IPI (Invisible Personal Information) as well as various comparison functions are made easy with the intelligent Software PIA-6000. Unique are the system's optical features, like resolution, magnification range and extended field of view.

### Menu-driven operation

The newly designed user interface and the menu-driven operation via touch screen and jogger wheel together with the intelligent PIA-6000 software guarantee highest efficiency. The control software with language selection even increases the user-friendliness.

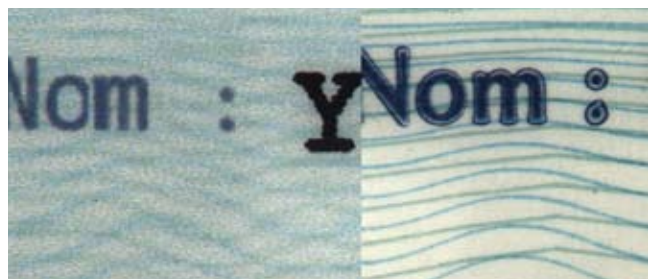
### Highest efficiency

In combination with the PIA-6000 software the DOCUCENTER Expert fulfills all requirements. Examination processes are documented, saved and retrieved via the whole process.

Touch screen and Jogger wheel for simple and rapid operation.



DOCUCENTER Expert



Comparison of printing techniques up to magnification 95x



OVI Optical Variable Ink



UV 313 nm



IPI Invisible Personal Information



# PIA-6000

The intelligent Software for image analysis, documentation and archiving

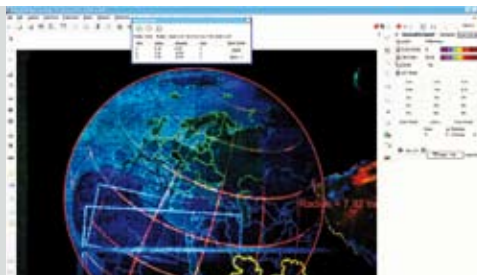
The menu-driven and simple-to-operate PIA-6000 software fulfills all requirements: Systematic comparison, measurements, image interpretation, image processing functions, establishment of data base with image search functions, spectral analysis investigation, etc. and assist the document examiner in his daily work. Simple documentation and reproduction of examination processes. Possibility to link external data bases.



PC control menu



ICAO code verification



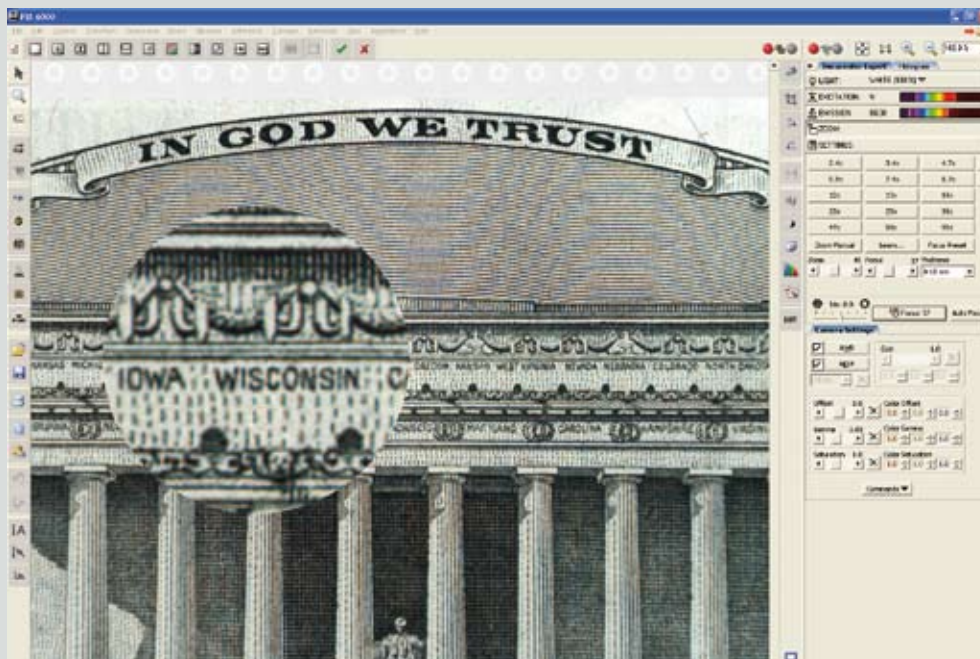
Measuring of distances, angles, circles diameters and areas



Hologram/Kinegram ring light illumination



RFID chip verification



With the magnifying window details are illustrated in live mode up to a magnification of 300x.

# DOCUCENTER Expert

Efficiency in all details

## Basic System

Completely new designed system with integrated illumination system, new designated optics, operation via touch screen/jogger knob and via PC/PIA-6000, different languages selectable, easy to operate, short user instruction time.

## High resolution IR digital colour camera

Colour IR digital camera with high IR sensitivity, spectral range 350 nm - 1000 nm, integration up to 12 seconds for weak luminences, predefined camera parameters for individual selection of light.

## Optics/Magnification

16x Zoom objective, motorized, autofocus, magnification range from 2x up to 95x on 21" TFT monitor, monitor resolution 1600x1200 pixel

## Field of view

182x136 mm with lowest magnification

## Touch screen

High resolution coloured touch screen, dimensions 117x87 mm, interactive communication for PIA-6000.

## Light sources:

### Ultraviolet

2x 9 Watt UV lamp, 365 nm  
2x 9 Watt UV lamp, 313 nm  
2x 9 Watt UV lamp, 254 nm

### Transmitted light UV, IR

UV: 2x9 Watt, 365 nm  
IR: 2x50 Watt lamp, adjustable

### Side light (EPI L+R), visual/IR

2x50 Watt lamp, variable intensity control, light angle adjustable

### Retro light (RETRO)

1x50 Watt light source, coaxial

## IR Light

2x 50 Watt IR light source, adjustable

## IR Luminescence (blue light)

1x250 Watt halogene illumination with condensor unit, adjustable

## Transmitted light Spot

1x 50 Watt light source, adjustable

## White light

2x 50 Watt light source, adjustable

## IR980 nm

Laser diode for examination of anti-stoke Inks

## LED Ring light

LED ring light illumination, automatic or manual, for special holograms and kinegrams

## Excitation filter module

Motorised filter selection, 83 filter combinations of various wave-lengths from 380–720 nm and bandwidths from 5–340 nm (according to combination).

## Camera barrier filter module

Motorised, filter values: 350–1100, 350-680, 570, 590, 610, 630, 645, 665, 695, 715, 735, 780, 830, 850, 1000 nm.

## Remote control:

System operation via PC/PIA-6000 software

## Computer system:

The perfect system for image archiving, report generation and creation of training material, etc., consisting of the following minimum configuration: Intel Pentium IV or AMD processor, Windows XP Pro, 21" TFT flat screen

## Software PIA-6000:

– Image comparison: superposition, split image, complementary colours



- Image enhancement functions
- Image inserts
- Measuring applications: length, area, angle, diameter, etc.
- Album, Image management
- Camera and Colour set-up, presetting
- ICAO Codes verification and detection of hidden information (IPI) via Software.
- Spectroscopy for measuring spectra in absorption, reflection and fluorescence
- Colorimetry:  $L^*a^*b^*$  / CIE colours

## Optional Accessories

### Colour Spectroscopy Module SP-2000

Miniature fibre optics spectrometer SP-2000 with USB connection, fibre diameter 100 microns, resolution 6.4 nm, grating bandwidth 380-900 nm

### Magnetic Ink Visualization with detector

### RFID Chip Reader

**Dimensions** (basic unit)  
805x565x425 mm (wxdxh)

**Weight** 55 kg

**Mains connection** 220–240V/50Hz or 110–120 V/60 Hz

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