

**NEW DOCUBOX Dragon with  
Sequence mode for fast and easy operation**  
for uncompromising and efficient document investigation



# DOCUBOX Dragon

## Extended and compact workstation

With the DOCUBOX Dragon Projectina offers a new concept allowing comprehensive and systematic examination of documents in field application. Extensive examination methods combined with efficient handling and operator convenience fulfil the increasing demands for a quick and efficient investigation of travel documents, banknotes and security printed matter, not only in the field, but also in the laboratory.

### Extensive document examination

DOCUBOX Dragon offers comprehensive investigation possibilities in a compact design. DOCUBOX Dragon incorporates 12 integrated light sources, motorized 20x Zoom optics and a CCD IR sensitive colour camera with Autofocus. A variety of monitors are available on request.

### New Sequence mode

The Docubox Dragon automatically selects different light sources and inspection times and provides the results within a very short time.

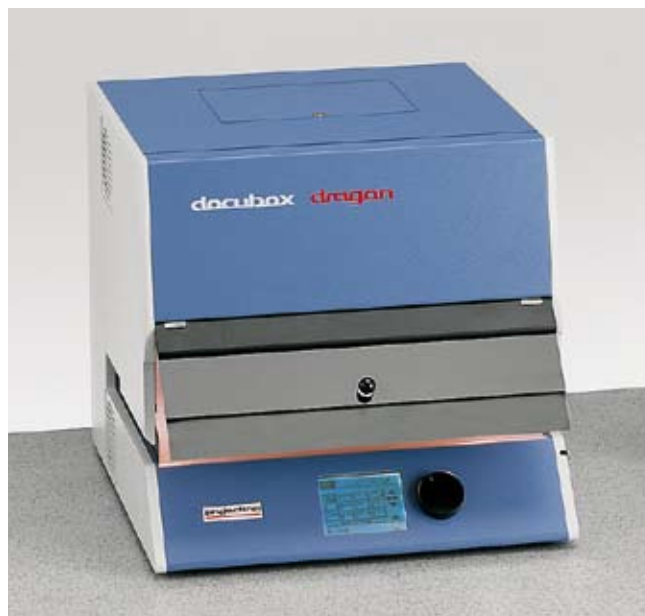
### Intuitive operation

Control of the instrument is by an easy to use touch screen and jogger knob. The menu-driven PIA-6 software is controlled in the operator's language. The pre-settings of various light sources make the operation even more simple.

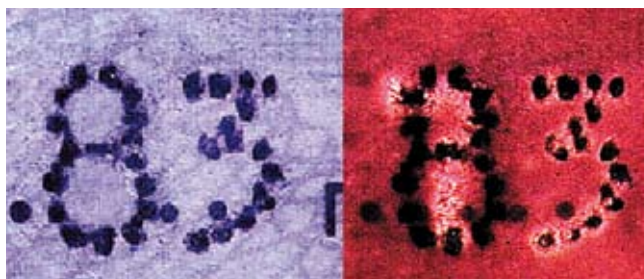
### Highest efficiency

Up to 200 control settings can be stored and retrieved via internal memory and via USB stick. This helps to standardize processes, to simplify the workflow and to shorten the investigation time.

Touchscreen and jogger knob for simple and intuitive operation.



DOCUBOX Dragon



IR luminescence investigation to distinguish printing inks



Intaglio printing in IR absorption



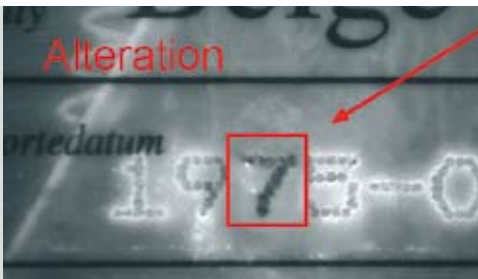
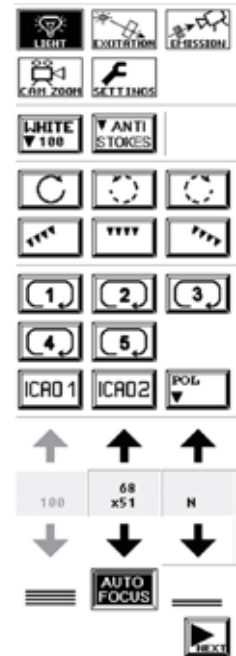
Photo substitution

# NEW PIA-6 with ICAO and IPI

The software for comparison, documentation and archiving

With the operative software PIA-6 and a Personal Computer or Laptop the Docubox Dragon is extended to a complete system for documentation, comparison and measuring. The PIA-6 has a remote function to control the Docubox Dragon via a Personal Computer or Laptop. The Remote Control function can be extended to operate the Docubox Dragon directly via a local network from your working place. Image data and instrument settings can be stored and retrieved together.

All functions of the Docubox Dragon are controlled via the intuitive software menu on your Personal Computer or Laptop. Via Remote Control up to 200 individually defined settings are selectable.



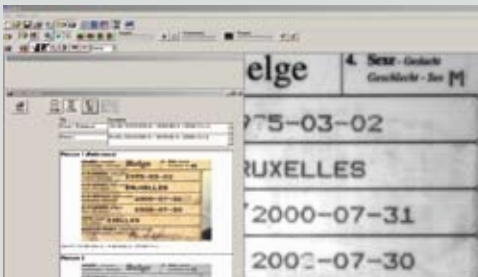
■ Annotations of text and marks



■ Measuring of distances, angles, circle diameters



■ IR 740 - 1100 nm illumination for «Anti-stokes inks» examination



■ PIA-6 offers individual print templates



■ Horizontal or vertical split comparisons



■ Verification of retroreflective security elements



■ IPI (Invisible Personal Information)



■ Recognition of the machine readable zone (MRZ)



■ Reading of the chip information with the RFID reader



■ Examination of embossed stamps with side light

# DOCUBOX Dragon

## Convincing in all details

### Basis System

Completely new designed system with integrated illumination system, new designated optics, operation via touch-screen and jogger knob, storage of up to 200 document control settings via internal memory and via USB memory stick, different languages selectable, easy to operate, no more failure caused by operator use.

### CCD Colour Camera

CCD Colour unit, spectral range 350 nm – 1000 nm pixel 576(V) x 768(H), with auto chip integration and Autofocus

### Optics

Motorized 20x zoom, autofocus/manual focus mode, magnification up to 52x, max. field of view 130 x 97,5 mm

### New Sequence mode

5 sequences with automatic selection of light sources and inspection time

### Monitor (selectable)

- 15" or 17" TFT/LCD monitor with S-video/PC connection.
- 19" or 21/22" PC monitor with PIA-6 software
- Laptop with FireWire or USB connection, with PIA-6 software

### Light Sources

- UV-illumination 365 nm surface light, 2x 9 Watt
- UV-illumination 254 nm and 313 nm, each 2 x 6 Watt with integrated safety system, for security elements in short and mid-wave UV range
- UV illumination 365 nm transmitted light, 2x 9 Watt
- IR luminescence: with condenser system, 100 Watt
- Infrared / White light, 2x 50 Watt
- IR/Side Light, left and right, individually selectable, 2x 50 Watt

- Transmitted light 2x 50 Watt
- Transmitted spot light, 1x 50 Watt
- Retro light LED
- **New** Infrared 740 - 1100 nm illumination for «Anti-stokes inks» examination
- **New** Multi-angle 16x LED light module for OVD verification

### Excitation Filter

Excitation filter module with 9 wavebands: 400–490 nm, 400–530 nm, 455–570 nm, 495–620 nm, 530–650 nm, 570–680 nm, 630–740 nm, DOCU (380–570 nm) and Neutral

### Camera Barrier Filter

Built-in filter module for rapid change of filters, filter selection via rotating knob, filter values: 570, 590, 610, 630, 645, 665, 695, 715, 735, 780, 830, 850, 1000 nm and IR cut off filter

### Dimensions

Basic system (without monitor)  
410 x 475 x 385 mm (WxDxH)

### Weight

Basic system 26 kg

### Mains connection

230V/50Hz or 115V/60Hz,

### Power consumption

max. 250 Watt



### Optional Accessories

**New PIA-6 Software** with remote control, ICAO and IPI functions, new graphics design for Image Comparison, Measuring and Archiving, ICAO code verification, network compatible

### New Polarisafe Module

to visualize the Polarisafe® security feature (Landqart®)

**PC control software** with extended remote control function to operate the Docubox Dragon directly via a network from your working place

### RFID Chip Reader

**DC/AC-inverter** for mobile use

**Transit case** with castors

**Computer System** Intel Pentium IV, min. 3.0 GHz, FireWire (IEEE 1394a), operating system Windows XP Pro or VISTA BUSINESS or Laptop with FireWire (IEEE 1394a) and operating system Windows XP Pro or VISTA BUSINESS

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