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VSC PD *i*

EFFICIENT QDE TERMINAL  
FOR ULTRA-HIGH RESOLUTION DOCUMENT IMAGING



Capture and Share Examination-Quality  
Digital Copies of Passports & Identity Documents

# VSC PD*i*

## EFFICIENT QDE TERMINAL FOR ULTRA-HIGH RESOLUTION DOCUMENT IMAGING

Create examination-quality digital copies of travel and identity documents for on-the-spot interrogation or remote examination by users across a secure network.

Simply operated, the VSC-PDi captures ultra-high resolution images of documents under a selection of light sources, storing them together with biometric and embedded data to create a full digital record of the physical document.

Examining the 'digital document', experts can observe the item under multiple illumination conditions, whilst zooming in or out, revealing security features, and checking the validity of embedded digital data captured via the documents e-Chip or embedded data.



### VSC-PDi TECHNOLOGY

#### High-Res Image Capture

- 45MP colour/IR camera
- Auto image crop/rotate
- Advanced capture modes
- Full open-page imaging

#### Multi-Spectral Illumination

- UV/Vis/IR light sources
- Transmitted illumination
- Co-axial illumination
- Hologram examination LEDs

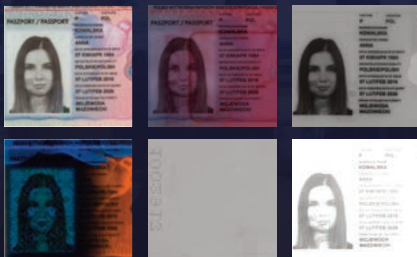
#### Embedded Data Capture

- Contactless eChip reader
- Optical Character Recognition
- Embedded data decoders
- Automatic MRZ scanning

# DIGITISED DOCUMENTS

Once captured, a digital document can be stored locally, uploaded to a secure database, or shared with other users to perform a Remote Examination.

Digitised documents contain high resolution images, embedded data and a copy of the VSC-PDI document capture settings, can be shared with and examined by any user operating a compatible VSC instrument.



Step	Pass	Fail	Notes	Pass
1	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
2	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
3	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Resolution is high (see page)	<input checked="" type="checkbox"/>
5	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
6	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Use angle sheet for verification	<input checked="" type="checkbox"/>
8	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>
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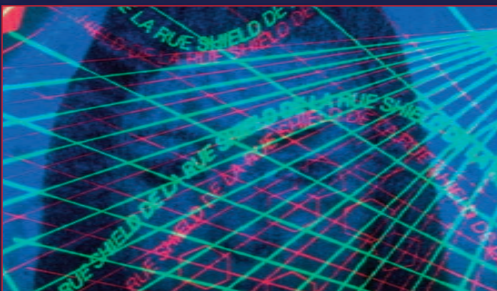
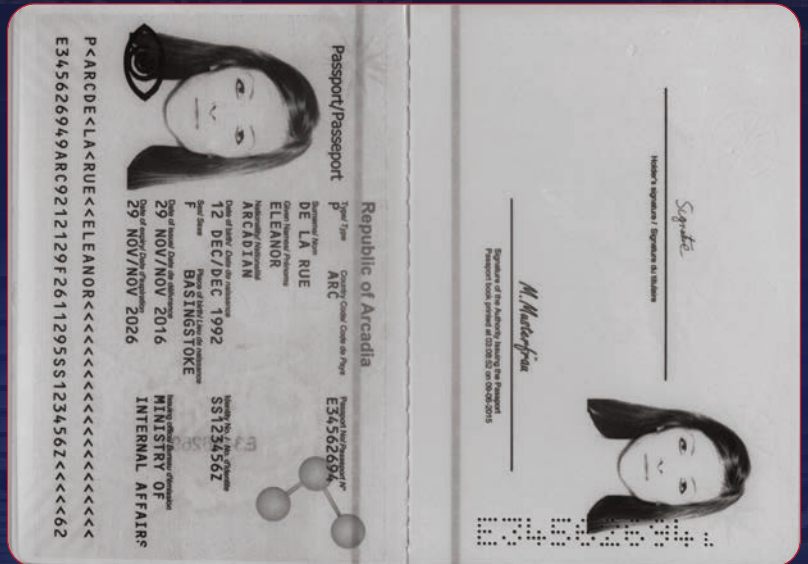
**Automated Examinations**  
Perform a complete document examination with a single mouse click. View images and data on screen or export for remote examination.

**Forensic-Level Imaging**  
Scrutinize documents using the most advanced forensic examination techniques including 3-Dimensional topographical imaging.

**Calibrated Accuracy**  
Guarantee the quality and accuracy of images using calibrated true colour correction and pixel to distance calibration.



Ultra-high-resolution images of a sample passport are captured under UV, Visible and IR illumination conditions.



# FLAWLESS

## 45MP DOCUMENT IMAGING

Operated via an intuitive software interface, the VSC-PDi combines high-intensity LED illumination with a precision camera system to create perfect digital copies of a document.

One-click examination routines may be configured to capture a series of ultra-high-resolution images under UV, Visible and IR light sources, revealing all levels of security features and exposing any signs of tampering or alteration.

Whilst images are captured, the VSC-PDi simultaneously detects and decodes embedded data (including eChip, biometric and ICAO MRZ data) creating a complete document data file.

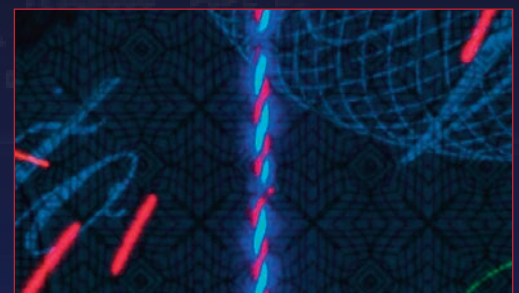
Ideal for repetitive inspections, one-click examinations enable operators of all user levels to create perfect digital documents.



A single mouse-click is all it takes to digitise documents



Full open-page images captured using the VSC-PDi reveal all levels of document security features.

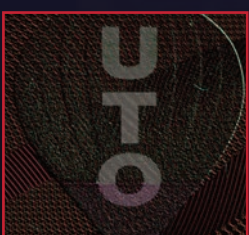


# Authenticate

## DETECT AND EXAMINE SECURITY FEATURES

Tailored for the examination of passports and identity documents the VSC-PDi includes modes of illumination and software decoders for the detection and examination of all common and advanced document security features.

- eCHIP biometric data
- 1D and 2D barcodes
- OVDs including holograms and Kinograms
- Barcode embedded biometrics
- Embedded Personal Information including: IPI™, Digital-IPI™, e-IPI™, and UV-IPI™
- ICI®/M-ICI® Invisible Constant Information
- ICS® Information Carrier Screen
- IDP Invisible Document Protection
- MRZ Machine Readable Zones
- Machine Readable LetterScreen++®
- UV and IR activated security inks
- Print features incl. watermarks, intaglio etc.



A multi-angle LED array reveals the hidden details of a latent image



The VSC-PDi system, operated via desktop or laptop computer, is a complete solution for the high resolution imaging of documents:

## SYSTEM SPECIFICATIONS

### IMAGE CAPTURE

- 45.5MP image capture
- Full resolution images of 8256 x 5504px
- FX-format CMOS sensor
- High performance image processing
- Field-of-View, 177 x 125mm
- **NEW** Integral eChip RFID reader

### DATA CAPTURE

- Full-page OCR of ICAO compliant MRZ
- **NEW** Integral eChip RFID reader

### ILLUMINATION

- Infrared/visible
  - incident (flood) IR/visible
  - transmitted visible light source
  - IR/visible (left/right) LED side lighting
  - diffused IR/visible flood lighting
  - visible white/860nm/940nm lighting
- Ultraviolet Light Sources
  - incident longwave UV (365nm)
- Specialist Light Sources
  - co-axial illumination
  - positionable 41 x LED array
  - diffused vertical visible
  - diffused horizontal visible

### SOFTWARE

- Powerful *i* Suite software
- Live image view
- 1D and 2D barcode analysis
- Capture, record and send images as JPEG or FFE
- Auto-save, with case numbers, to local or network locations
- Integrated document database
- Automated system calibration

### OPTIONAL SOFTWARE

- 3D Imaging Module
- Facial Recognition Module
- LetterScreen++ Decoder
- IPI/Digital-IPI Decoder
- Security Documents Reference Database
- Banknotes Reference Database

*Specifications and data are subject to change.  
Please contact Foster+Freeman for the latest product specification.*

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