Intelligent Touch Screen Workstation for the Examination of Travel & Identity Documents

Including:
Passports, Visas, ID Cards, and Drivers Licences etc.
Advanced forensic-level technology, simply controlled. The VSC®80i provides a complete solution to the comprehensive examination of secure travel and identity documents including passports, ID cards, visas, entry permits, and driving licences etc.

Ideal for high security, fast-paced environments including air, land and sea ports, immigration controls, and border crossing points etc. the VSC®80i re-writes the rulebook for high-level document examination by enabling the operator to interrogate documents with forensic precision via an intuitive touchscreen interface that improves processing speed and efficiency.

A fully integrated workstation, that does not require an additional PC, the VSC®80i builds upon the industry-leading VSC technology that is used by forensic document examination professionals worldwide to provide a powerful solution for the detection of counterfeit and altered documents.

Detect Fake and Counterfeit Documents
- Inspect documents under high magnification
- Authenticate passport & ID card security features
- Observe documents under UV-Vis-IR light sources
- Compare suspect against genuine documents

Forensic-Level Technology, Simply Operated
- Intuitive icon-driven software interface
- Semi-automated examinations
- ‘One-Click’ activation of examination routines
- Fully integrated system - No PC required
- Optional Facial Recognition module

<table>
<thead>
<tr>
<th>PHASE 1</th>
<th>PHASE 2</th>
<th>PHASE 3</th>
<th>PHASE 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
</tbody>
</table>

Four phases of document examination, originally published as part of the United Nations Office on Drugs and Crime Guide for the Development of Forensic Document Examination Capacity, 2010
Authenticate Travel & Identity Documents

The VSC®80i provides a suite of inspection tools that enable the examiner to differentiate between false and genuine documents.

Using a combination of specialist illumination and digital enhancement techniques, easily applied using the VSC®80i touchscreen interface, examiners are able to identify even high-level fakes and reveal the tell-tale signs of tampering.

Revealing the Invisible
Detect evidence of document abuse such as page or photo substitution and erasures. Analyse inks and papers using IR imaging.

Reveal UV Activated Security Features
Use 3 wavelengths of UV to activate and reveal security features used on documents and banknotes worldwide.

Examine Microtext and Fine Details
Examine documents under high magnification to reveal inconsistencies in patterns and print quality.

Decode ePassport, MRZ & Embedded Data
Auto-detect data embedded within documents including, MRZ, barcodes, IPI and latent images.

Surface Features and Laser Engraving
Reveal barely visible laser engravings on the surfaces of ID cards and plastic coated passport data pages.

A choice of fast, accurate and reliable ePassport, CARD and ICAO readers are available for use with VSC®80i workstations, enabling the user to simultaneously capture and decode the contents of an ePassport or contactless smart card.
## VSC®80i hardware options

### Hardware Variants

Three distinct models of VSC®80i, the FS, M1 and M2, enable the user to select a system to meet with their own unique requirements.

#### Touchscreen Display
- Quick and easy to use
- Requires little training

#### Integral Workstation
- On-board processing
- No external PC required

#### Intuitive Design
- Turnkey operation
- Low maintenance

### Modular Illumination
- To reveal alterations and check security features

### Unique to the VSC®80

- The transmitted light base may be removed from the main unit for the examination of larger items.

### Touch Screen Interface
- 24" touch sensitive display, provides excellent image clarity and dynamic contrast together with complete control of all VSC80 functions.

### High Sensitivity Camera
- Full HD CMOS colour/mono IR sensitive camera with zoom lens captures bright, sharp live images of the examination area.

### Essential Illumination Module
- UV, Visible and IR light sources mounted in flood, incident, transmitted and spotlight arrays for the multispectral examination of documents.

### Removeable Transmitted Light Base
- Unique to the VSC®80, the transmitted light base may be removed from the main unit for the examination of larger items.

### Hardware Variants

<table>
<thead>
<tr>
<th>VSC®80i FS</th>
<th>VSC®80i M2</th>
<th>VSC®80i M1</th>
</tr>
</thead>
<tbody>
<tr>
<td>The complete workstation</td>
<td>The mid-range workstation</td>
<td>The entry-level workstation</td>
</tr>
</tbody>
</table>

#### FS Features
- Removeable Transmitted Light Base
- Incident UV-B and UV-C Light Sources
- 13x Camera Filter Module
- 10x LED Spotlight
- Infrared Anti-Stokes Light Source

#### M2 Features
- Removeable Transmitted Light Base
- Incident UV-B and UV-C Light Sources
- 6x Camera Filter Module
- 4x LED Spotlight

#### M1 Features
- Removeable Transmitted Light Base
Advanced Forensic-Level Technology. Simply Controlled

A new icon-driven software interface provides fast and intuitive access to all VSC®80i examination functions enabling users of varying ability to perform advanced forensic-level examinations.

Accessible Icon-Driven Interface
Uncomplicated and instantly accessible, the VSC80i interface enables all levels of user to perform examinations with ease.

Reference Document Databases
Automatically detects the document type under examination and displays authentic reference images for comparison.

Facial Recognition
Identify individuals by comparing their physical appearance with the photo(s) present in a passport or ID document.
### VSC80i Core System Specifications

<table>
<thead>
<tr>
<th>Imaging</th>
<th>Illumination</th>
<th>Essential Hardware</th>
</tr>
</thead>
</table>
| Camera  | High sensitivity CMOS camera  
Vis-IR sensitive  
Zoom lens  
Full HD live video output | Visible-IR LED Illumination  
2x1 Multi-Angled LED Array  
Incident (flood) VIS/IR LEDs  
Twin Vis and IR Side LEDs | VSC Dimensions  
W:392 x D:372 x H:366mm |
| Magnification | Up to x100 on 24" monitor | Specialist Illumination  
Incident UV-A  
Coaxial Light Source | Power Supply  
Input 110V/230V, 50/60Hz |
|          |             | PC & Monitor  
24" Touch Screen Display  
Fully integrated system  
No PC required |

### VSC80i FS

<table>
<thead>
<tr>
<th>Specialist Illumination</th>
<th>VSC80i M2</th>
<th>VSC80i M1</th>
</tr>
</thead>
</table>
| Incident UV-B, UV-C  
IR Anti-Stokes  
10x LED Spotlight | Incident UV-B, UV-C  
4x LED Spotlight | Transmitted Illumination |
| Filteration  
13x Camera Filter Module | Filteration  
6x Camera Filter Module | Removeable light module |
| Transmitted Illumination  
Removeable light module  
UV-A, Vis and IR light sources | Transmitted Illumination  
Removeable light module  
UV-A, Vis and IR light sources | UV-A, Vis and IR light sources |

### Optional Hardware Accessories

- **e-Passport Reader 1A**  
  Order Ref: VSC/READER1/A  
  High performance MRZ and RFID data reader with contact/contactless capability.

- **e-Passport Reader 3**  
  Order Ref: VSC/READER3  
  Compact RFID and CARD reader with CCID interface.

- **Facial Recognition Module**  
  A choice of Expert or Standard hardware to be used in conjunction with the gemalto Live Face Identification System (LFIS).

  *For full product details please refer to the document - VSC Facial Recognition*

- **Padded Carrying Case**  
  Order Ref: VSC80/CC  
  Wheeled travel case with retractable handle.

- **DC to AC Power Adaptor**  
  Order Ref: VSC80/12VDC  
  12V inverter to provide 120W AC mains voltage

### Optional Software Accessories

- **Embedded Personal Data Decoder**  
  VSC80/PI  
  IPI (Invisible Personal Information) and ICI (Invisible Constant Image) to enable detection of IPI/ICI in passports and ID cards

  Uses Scrambled Indicia® Technology supplied under licence from Graphic Security System Corp (GSSC) of the USA

- **LetterScreen++ Decoder**  
  VSC80/LS/PLUS  
  LetterScreen++ detection and verification by special algorithm based on personal data in MRZ

  Machine-Readable LetterScreen++ ® Technology supplied under licence from Jura, Hungary

- **Security Documents Database**  
  Reference database of ID documents.  
  Archive Collection  
  Annual Subscription  
  VSC/DB/Archive  
  VSC/DB/KDATA

- **Banknotes Database**  
  Reference database of banknotes.  
  Archive Collection  
  Annual Subscription  
  VSC/DB/Archive/C  
  VSC/DB/KDATA/C