

foster+freeman

Forensic Science Innovation



# VSC<sup>®</sup> 80*i*

for document examination



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

Including:  
Passports, Visas, ID Cards, and  
Drivers Licences etc.

# VSC<sup>®</sup>80*i* for document examination



## Fast, Effective Examination of Travel & Identity Documents

Advanced forensic-level technology, simply controlled. The VSC<sup>®</sup>80*i* 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<sup>®</sup>80*i* 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<sup>®</sup>80*i* 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

	Immigration & Border Control	Forensic Laboratory Setting	<b>VSC80<i>i</i></b>
PHASE 4		Specialist	✓
PHASE 3	Specialist	Advanced	✓
PHASE 2	Advanced	Basic	✓
PHASE 1	Basic		✓

*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*

# VSC®80i applications



## Reveal the Invisible

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

## 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.



### 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<sup>®</sup>80i hardware options

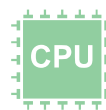
## Hardware Variants

Three distinct models of VSC<sup>®</sup>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



**Modular Illumination**  
to reveal alterations and  
check security features



**Integral Workstation**  
on-board processing  
no external PC required



**Intuitive Design**  
turnkey operation  
low maintenance



### VSC<sup>®</sup> 80i FS

The complete workstation

### VSC<sup>®</sup> 80i M2

The mid-range workstation

### VSC<sup>®</sup> 80i M1

The entry-level workstation

#### TouchScreen 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<sup>®</sup>80, the transmitted light base may be removed from the main unit for the examination of larger items.

#### 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

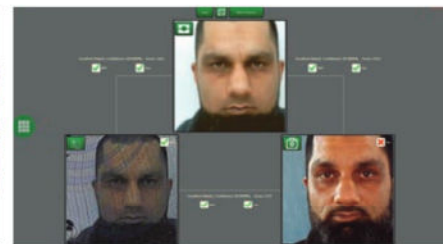
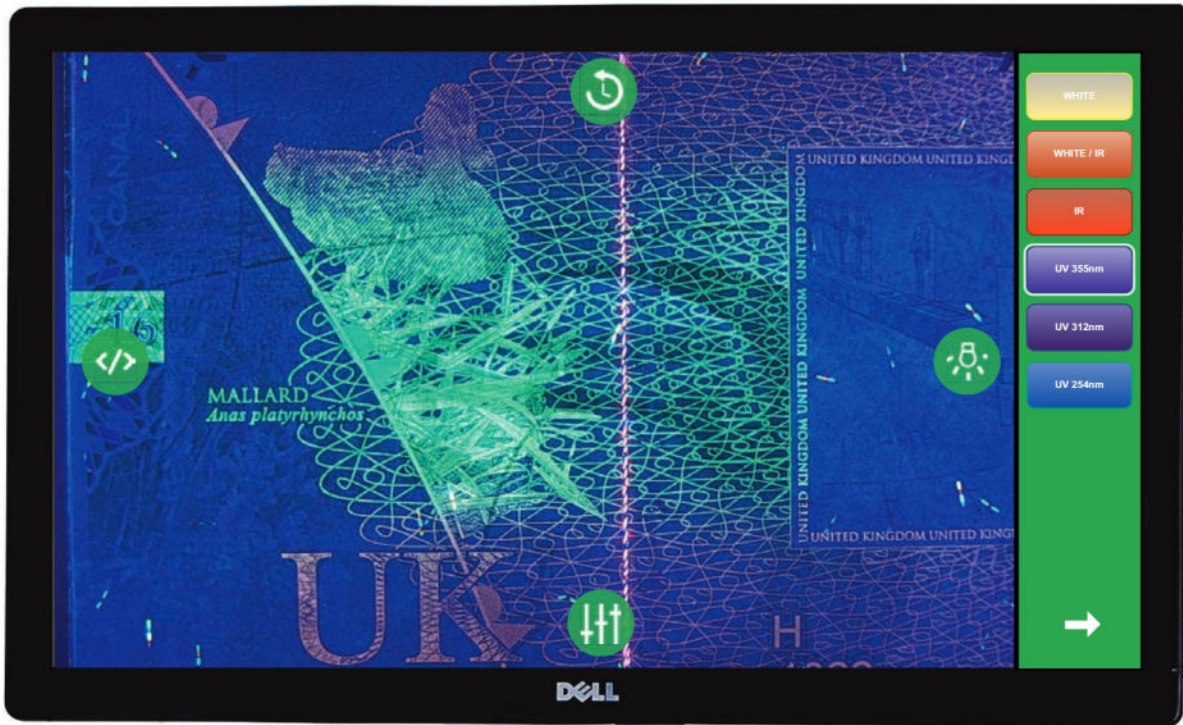
#### M1 Features

Removeable Transmitted Light Base

# VSC<sup>®</sup>80*i* intelligent software

## Advanced Forensic-Level Technology. Simply Controlled

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



Powered by **gemalto**

### Accessible Icon-Driven Interface

Uncomplicated and instantly accessible, the VSC80*i* 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.

# VSC<sup>®</sup>80i specifications and accessories

## VSC80i Core System Specifications

Imaging		Illumination		Essential Hardware	
Camera	High sensitivity CMOS camera Vis-IR sensitive Zoom lens Full HD live video output	Visible-IR LED Illumination	21x 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		VSC80i M2		VSC80i M1	
Specialist Illumination	Incident UV-B, UV-C IR Anti-Stokes 10x LED Spotlight	Specialist Illumination	Incident UV-B, UV-C 4x LED Spotlight	Transmitted Illumination	Removeable light module UV-A, Vis and IR light sources
Filtration	13x Camera Filter Module	Filtration	6x Camera Filter 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		

## Optional Hardware Accessories



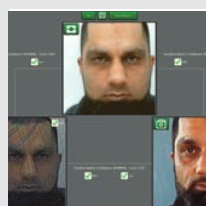
**e-Passport Reader 1A**  
Order Ref: VSC/EREADER1/A  
High performance MRZ and RFID data reader with contact/contactless capability.



**e-Passport Reader 3**  
Order Ref: VSC/EREADER3  
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*

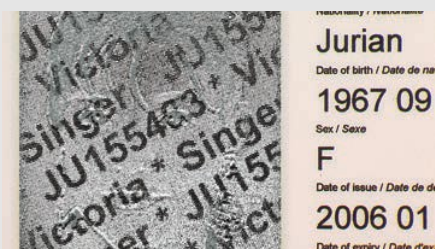


**Padded Carrying Case**  
Order Ref: VSC80/CC  
Wheeled travel case with retractable handle.



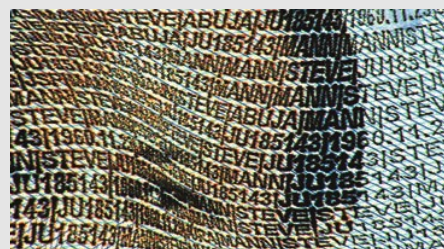
**DC to AC Power Adaptor**  
Order Ref: VSC80/12VDC  
12V inverter to provide 120W AC mains voltage

## Optional Software Accessories



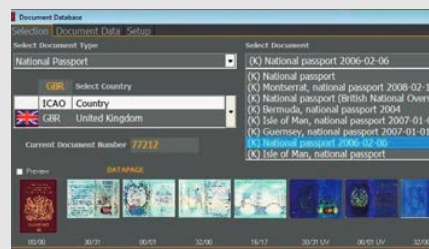
**Embedded Personal Data Decoder**  
VSC80/IPI  
IPI (Invisible Personal Information) and ICI (Invisible Constant Image) to enable detection of IPI/ICI in passports and ID cards

Uses Scrambled Indicia<sup>®</sup> 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++<sup>®</sup> Technology supplied under licence from Jura, Hungary



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

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

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