

foster+freeman

Forensic Science Innovation



VSC[®] 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[®]80*i* for document examination



Fast, Effective Examination of Travel & Identity Documents

Advanced forensic-level technology, simply controlled. The VSC[®]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[®]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[®]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	VSC80 <i>i</i>
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.



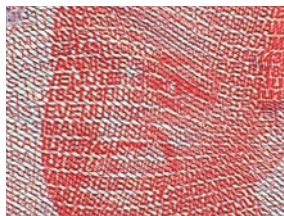
Reveal UV Activated Security Features

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[®]80*i* hardware options

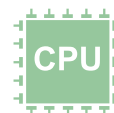
Hardware Variants

Three distinct models of VSC[®]80*i*, 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[®] 80*i* FS

The complete workstation

VSC[®] 80*i* M2

The mid-range workstation

VSC[®] 80*i* 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[®]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

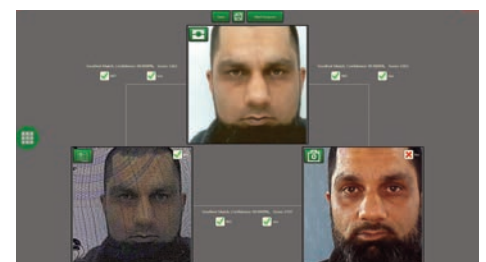
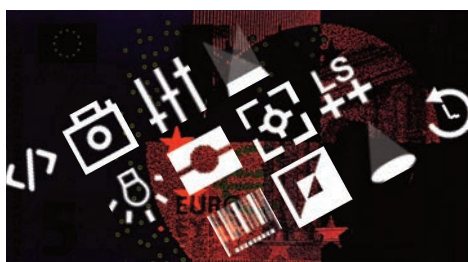
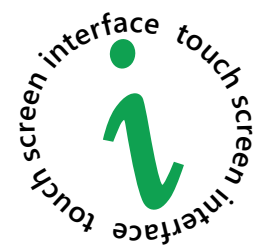
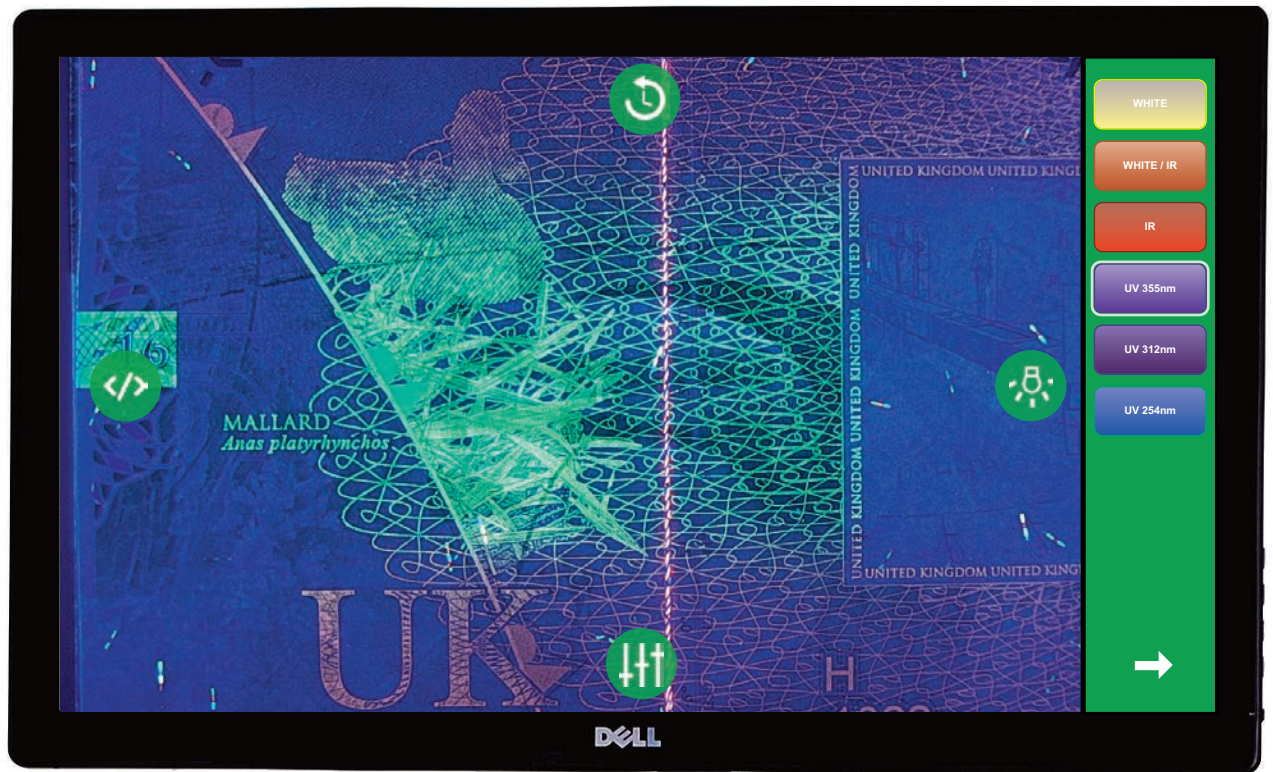
M1 Features

Removeable Transmitted Light Base

VSC[®]80*i* intelligent software

Advanced Forensic-Level Technology. Simply Controlled

A new icon-driven software interface provides fast and intuitive access to all VSC[®]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[®]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

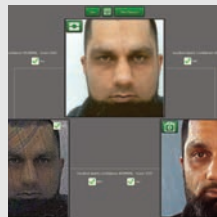
VSC80i FS		VSC80i M2		VSC80i M1	
Specialist Illumination	Incident UV-B, UV-C IR Anti-Stokes 10x LED Spotlight	Specialist Illumination	Incident UV-B, UV-C 4x LED Spotlight	Transmitted Illumination	Removeable light module UV-A, Vis and IR light sources
Filtration	13x Camera Filter Module	Filtration	6x 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).

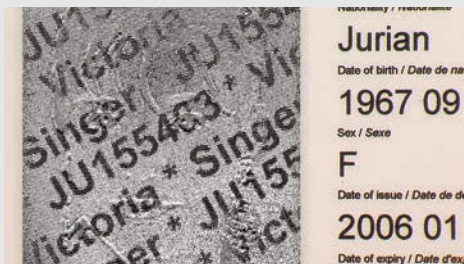
**For full product details please refer to the document - VSC Facial Recognition*



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

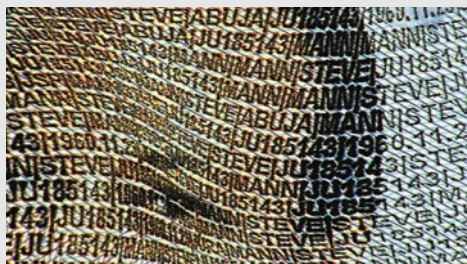
DC to AC Power Adaptor
Order Ref: VSC80/12VDC
12V inverter to provide 120W AC mains voltage

Optional Software Accessories



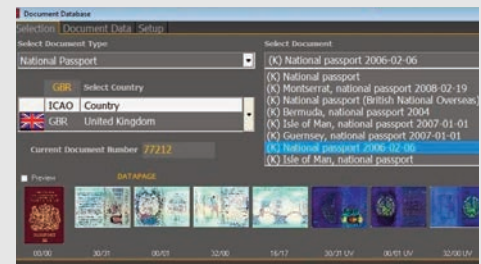
Embedded Personal Data Decoder
VSC80/IP1
IPI (Invisible Personal Information) and ICI (Invisible Constant Image) to enable detection of IPI/ICI in passports and ID cards

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 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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