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Forensic Science Innovation

workstation · no PC required - touch screen

VSC®80i

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

	Immigration & Border Control	Forensic Laboratory Setting	**VSC80*i***
PHASE 1		Specialist	✔
PHASE 2	Specialist	Advanced	✔
PHASE 3	Advanced	Basic	✔
PHASE 4	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®80*i* 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®80*i*** 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®80*i* 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 availble for use with **VSC®80*i*** 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	VSC®80*i* M2	VSC®80*i* M1
The complete workstation	The mid-range workstation	The entry-level workstation

TouchScreen Interface
21.5" 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	M2 Features	M1 Features
Removeable Transmitted Light Base	Removeable Transmitted Light Base	Removeable Transmitted Light Base
Incident UV-B and UV-C Light Sources	Incident UV-B and UV-C Light Sources	
13x Camera Filter Module	6x Camera Filter Module	
10x LED Spotlight	4x LED Spotlight	
Infrared Anti-Stokes Light Source		

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

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VSC 80

touch screen interface touch screen interface
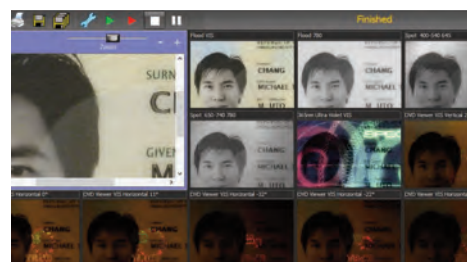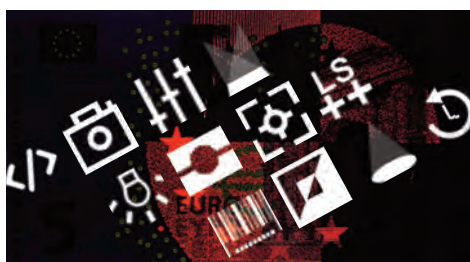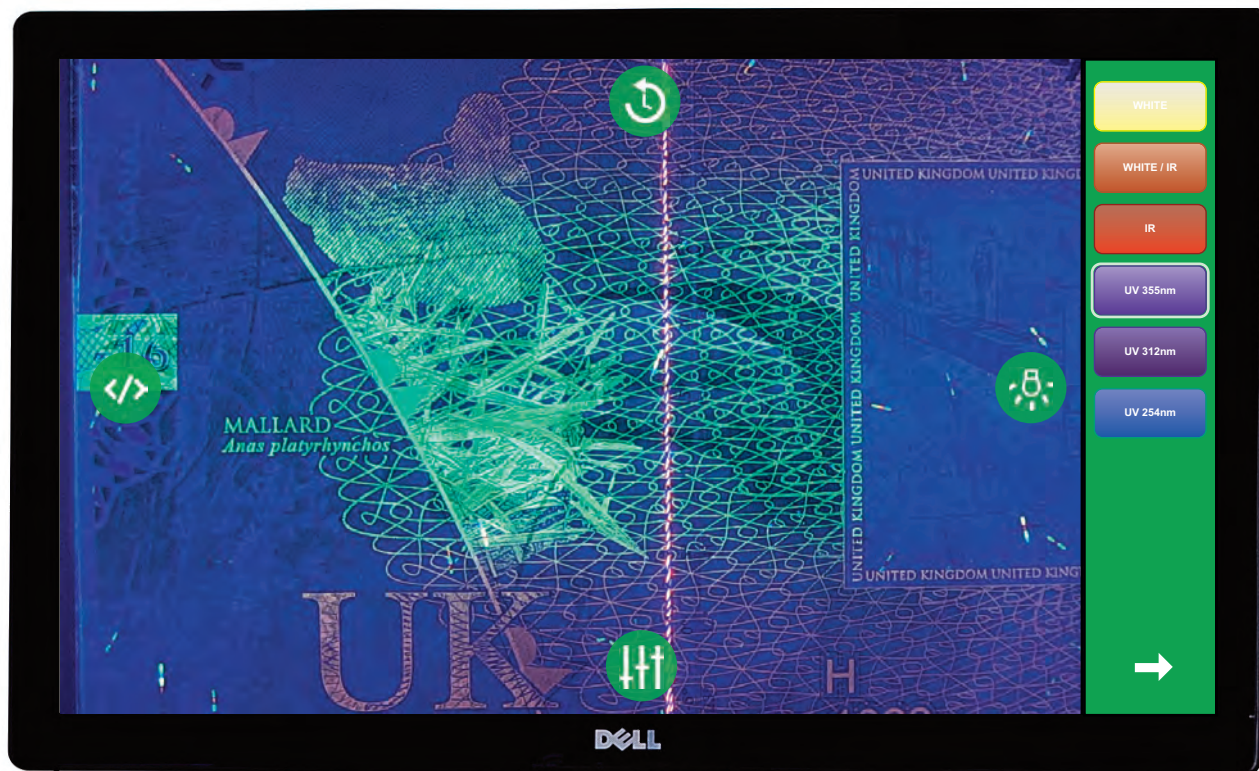
Accessible Icon-Driven Interface

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.

Automated Examinations

Customised automated imaging routines greatly increase the speed and efficiency of examinations.

VSC®80*i* specifications and accessories

VSC80*i* Core System Specifications

Imaging

Camera	High sensitivity CMOS camera Vis-IR sensitive Zoom lens Full HD live video output
Magnification	Up to x73 on 21.5" monitor

Illumination

Visible-IR LED Illumination	21x Multi-Angled LED Array Incident (flood) VIS/IR LEDs Twin Vis and IR Side LEDs
Specialist Illumination	Incident UV-A Coaxial Light Source

Essential Hardware

VSC Dimensions	W:392 x D:372 x H:366mm
Power Supply	Input 110V/230V, 50/60Hz
PC & Monitor	21.5" Touch Screen Display Fully integrated system No PC required

VSC80*i* FS

Specialist Illumination	Incident UV-B, UV-C IR Anti-Stokes 10x LED Spotlight
Filtration	13x Camera Filter Module
Transmitted Illumination	Removeable light module UV-A, Vis and IR light sources

VSC80*i* M2

Specialist Illumination	Incident UV-B, UV-C 4x LED Spotlight
Filtration	6x Camera Filter Module
Transmitted Illumination	Removeable light module UV-A, Vis and IR light sources

VSC80*i* M1

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.

Intelligent Display Mounting Arm
Order Ref: VSC80/MOUNT
Easy to assemble adjustable mounting arm for the VSC80*i*'s 21.5" touchscreen display.
Arm extends, retracts and tilts to change the operating angle of the display

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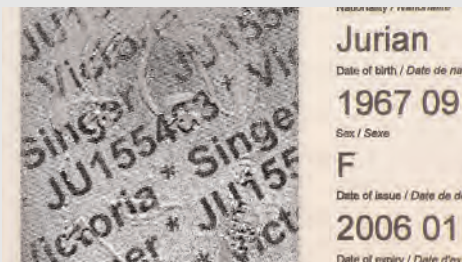
Embedded Personal Data Decoder
VSC80/IPI
IPI (Invisible Personal Information) and ICI (Invisible Constant Image) to enable detection of IPI/ICI in passports and ID cards

Uses Scrambled Indicia® 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