

foster+freeman

VSC[®] QC1

Video Spectral Comparator

Rapid
Travel Document
Authentication



EXAMINE

all passports & ID cards

DETECT

alterations & counterfeits

REVEAL

covert security features

foster+freeman

VSC[®]

QC1

Rapid Travel Document Authentication

Since the introduction of the original VSC system in 1979, Foster + Freeman have been recognised as world leaders in the design and manufacture of high specification systems for the forensic examination of questioned documents.

The current range of VSC systems includes the VSC6000/HS, the compact but powerful VSC400 and the modular range of VSC40 instruments.

The range is supplemented by the VSC-QC1, a fast 'touch screen' system for the verification of passports and ID cards.

A multi-functional system for the examination and authentication of passports, ID cards and drivers' licences

The VSC-QC1 enables 12 authenticity checks to be carried out on a passport or ID card in a matter of seconds, combining ease of use with rapid examination and data capture.

Of a similar size to the compact passport scanners commonly seen at airport terminals, the VSC-QC1 provides a far more comprehensive interrogation of a document.

Supremely versatile, typical applications for the VSC-QC1 can be found at border crossing points, immigration controls, secure airport terminals, in police or border patrol vehicles, or within private companies such as hotels, banks, car rental companies or casinos where identity documents may be used as a security deposit.

UV-Vis-IR Light Sources

Seven full-page images, generated under various LED light sources, are captured automatically when the document is placed on the VSC-QC1.

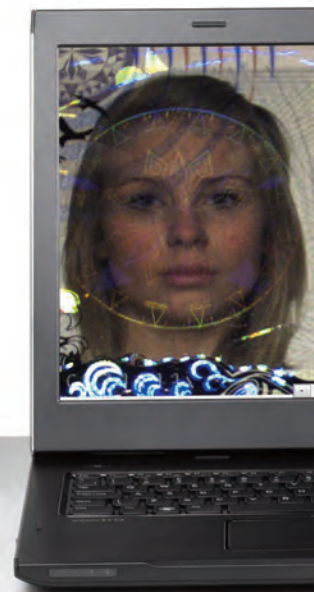
Read Hidden Data

Five examinations of digitally encoded data may be initiated using the touch screen.

Compare and Confirm

By installing reference databases, data and images of the passport under examination may be compared with those of an authentic document.

Find out more at fosterfreeman.com



Effective on all types of passports and ID cards, VSC technology is in use by immigration authorities, government agencies and forensic laboratories worldwide

Digital Imaging

- High resolution 5MP digital camera
- Live video imaging of document
- Up to x12 digital zoom
- Image resolution 500dpi

UV-Vis-IR LED Illumination

- White light for general examination
- IR light for revealing drop-out inks
- UV light for exciting fluorescent features
- Visible side lighting for examining indentations
- IR side lighting to highlight intaglio print
- Coaxial light for revealing retro-reflective features
- Transmitted light for authenticating watermarks
- External white LED for examining OVDs

Data examinations

- View e-chip image
- Read, check and display MRZ data
- Optional invisible personal information decoder
- Read 1D and 2D barcodes
- Database comparison

System features

- Fast, accurate and efficient full-page scanner
- Intuitive operation
- Optional document database integration
- Capture, store retrieve and export data
- Easy integration with existing networks
- Compact systemsuitable for use in vehicles



Whilst the integral 10" display is recommended for users seeking a document scanner that is efficient and intuitive, the option to use the VSC-QC1 with any Windows compatible device make the system an ideal solution for large scale deployment within organisations with an IT infrastructure.





Fully portable for mobile operation

Using the optional DC adaptor, the VSC-QC1 can be powered via a car battery making it the most uniquely mobile VSC in the Foster + Freeman range.

Examine identity documents and driving licences using the VSC-QC1 within a police or border control vehicle.

A laptop or touch screen PC, licence plate reader and GPS systems are now commonplace in modern police and security vehicles. Connecting a VSC-QC1 to an in-car computer allows officers to quickly authenticate and record ID documents whilst on patrol.



Frontline immigration & border control

For countries dealing with the problem of increased illegal immigration or under threat from terrorism, the VSC-QC1 provides a solution that surpasses the frontline technology currently in the field.

The VSC-QC1 can dramatically upgrade security when deployed for passport examination at immigration control.

Document scans are fast and efficient resulting in a high first time read rate and a remarkably low error rate.

QC1 Examination Features



Up to x12 Digital Zoom

The VSC-QC1 high resolution digital video camera provides the user with a digital zoom range of x1 to x12. Capable of revealing minute details on a document, zoom magnification is controlled via the touch screen using "pinch zoom"



Touch Screen Interface

Designed to be operated via touch screen, the VSC-QC1 software interface is simple and intuitive to use. Thumbnail images and a uncomplicated menu allow users, with minimal training, to operate the system with ease.



Encrypted Data Decoders

The VSC-QC1 can be configured to automatically extract data from an ID card or passport data page, from MRZ, 1D and 2D barcodes. Biometric data stored on a passport e-chip is read via contactless RFID. IPI decryption is available under licence.



Database Integration

When connected to the optional reference database, the VSC-QC1 can be configured to automatically search for a matching reference document providing the user with images and detailed information about the document under examination.



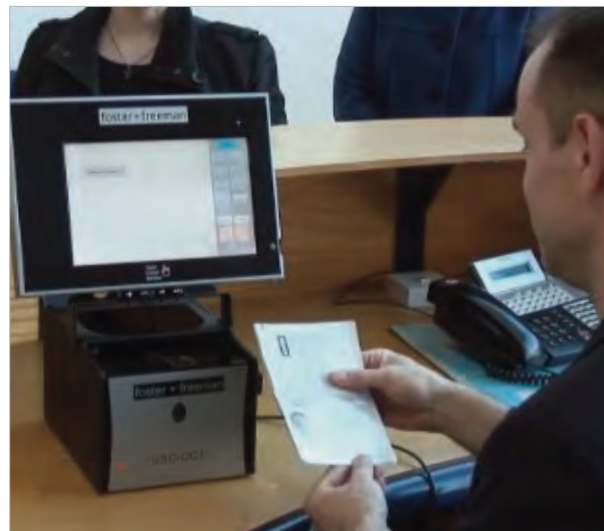
Front desk fraud prevention system

Hotels, casinos, and car rental companies often take passports, national ID cards and drivers licences as security against high value items.

Examining identity documents using the VSC-QC1 can help prevent the theft of goods and services.

Performing a simple discreet document scan at the front desk in under 5 seconds will allow the operator to detect counterfeits with minimal offence to the customer.

Data can be recorded, stored or exported, eliminating the need for manual data entry.



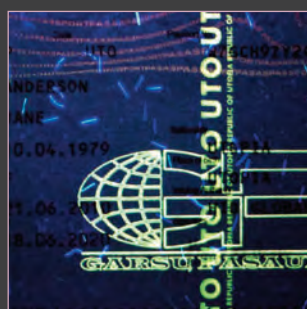
Expert results with minimal training

It can take more than 3 years' to train a forensic document examiner, a VSC-QC1 operator can be identifying suspect documents in a matter of hours.

Simple and effective software used in combination with the optional security document reference database will allow a new VSC-QC1 user to confidently examine the many thousands of passports, ID cards and drivers licences currently in circulation.

Key features that benefit VSC-QC1 users that do not have experience in document examination include, semi-automated examinations, a contactless RFID reader, and automatic pass or fail notification based upon MRZ data.

QC1 LED Light Sources



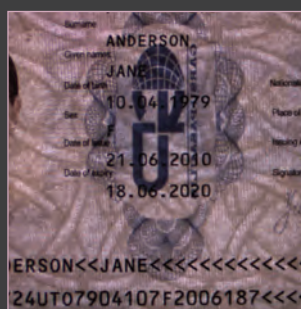
UV 365nm illumination

Long wave UV illumination can be used for the examination of numerous UV activated security features as well as for the analysis of paper quality and the detection of signs of tampering.



IR 830nm illumination

Infrared illumination is primarily used to detect evidence of tampering in the form of document alteration and for the examination of IR B900 inks on passports and ID cards.



White light illumination

Visible security features, watermarks, retro-reflective laminates, holograms, embossing and laser perforation are all examined under white light. In combination with zoom magnification, white light is the primary light source for a document examination.



Advanced LED technology

Foster + Freeman products have pioneered the use of high intensity LED illumination for the examination of questioned documents.

LEDs are selected for peak performance at each wavelength and maximum illumination lifetime.

System Specifications

Digital Imaging

Camera 5MP
Image Zoom up to x12 digital
Image Resolution 500dpi

Illumination White 400-700nm
UV 365nm
IR 830nm
Transmitted,
Co-axial, Side

Power Supply 110-240 volts

Touch Screen 10" hi-res display
Capacitive touch screen
USB 2.0 interface



2.5Kg

Optional Software

Security Documents database
Information and images of over 1,100 passports,
ID cards and Driving Licences from 197 countries

Archive database VSC/DB/ARCHIVE
Annual subscription VSC/DB/KDATA

IPI Decoder VSCQC1/IPI
Software module to enable detection of Invisible
Personal Information in passports and ID cards.



Optional Accessories

Keyboard & Mouse VSCQC1/KM
An alternative input method for use with
10" touch screen tablet

PC and Monitor VSCQC1/PENT
An alternative to the 10" touch screen tablet
Computer VSCQC1/MON
19" flat panel monitor

USB Flash Drive VSCQC1/DT
High speed 16GB USB memory stick

Vehicle Power Adaptor VSCQC1/DT
Power the VSC-QC1 via a car battery

Protective Carry Case VSCQC1/CC
Lightweight case with shoulder strap

X10 External Magnifier VSCQC1/EL
Handheld loupe for the manual examination
of microprinting