foster+freeman

VSC 400

VSC 4000 Video Spectral Comparator

Compact High-Resolution Document Imaging

EXAMINE

All Questioned Documents

DETECT

Alterations & Counterfeits

REVEAL

foster+freeman

Covert Security Features

foster+freeman

VSC 4000 Compact High-Resolution **Document Imaging**

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 sepecification 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/HD instruments.

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

Find out more at fosterfreeman.com

A mid-range system for checking the integrity of Passports, Visas and Identity cards

The VSC 400 is a colour and infrared digital imaging system designed for the verification of passports, visas and ID cards and for the general examination of suspect or questioned documents.

Multi-spectral examinations of documents are made under UV, visible and near IR illumination with live on-screen images provided by a scientific grade high resolution imaging system with motorized zoom and high magnification.

Operated via a desktop PC or laptop computer, the VSC400 provides document examiners with extensive facilities for examining security features used to protect travel documents such as passports and visas, banknotes, certificates of authenticity and many other security documents.

Use the VSC400 to examine...

UV activated fluorescent features under short, medium and long wave UV

Tampering and photo-substitution under high magnification

Anti-Stokes security features using intense IR lighting

Retro-reflective laminates with coaxial lighting

Embossed stamps and indentations under obligue lighting

Holograms and Kinegrams using sequential multi-angled lighting

Suspected alterations

by displaying variations in the infrared absorption and fluorescent properties of inks



Passports and ID Cards

Examine and verify all forms of national passport and ID cards using multi-spectral illumination for the visualisation of latent security features, embedded data decoders to read bio-metric e-passport data, MRZ data and Invisible Personal Information (IPI).

By installing the optional Security Documents reference database, live images can be checked against a regularly updated worldwide collection of over 1,100 passports.

Banknotes

Modern banknotes are produced with advanced document security features as well as basic measures such as watermarks.

The VSC400 is suitable for the examination of all covert features including anti-Stokes inks and planchettes.

By installing the optional Banknotes reference database, questioned banknotes can be checked against a regularly updated worldwide collection of over 4,500 banknotes, a sure way of detecting counterfeits.

Breeder Documents

The use of inks that are identical in colour but chemically different are often revealed by differences in their infrared absorption or fluorescent characteristics. Such anomalies can be revealed using the VSC400s range of light sources.





Multi-spectral Illumination A wide range of illumination for the examination of all security & travel documents from short wave UV to infrared including incident, oblique and transmitted light plus high intensity lamps for generating weakly fluorescent features.



Automated Examinations Select up to 186 illumination and filter settings to be automatically processed by the VSC with results displayed as thumbnails and stored with the examination settings.



High Resolution Imaging The VSC400 is fitted with a 3.3 million pixel CCD firewire colour camera that provides exceptional image quality. For applications that require a greater image resolution, the system can be upgraded to a 5MP camera.



Embedded Data Decoders The VSC400 automatically detects and decodes MRZ data and 1D & 2D barcodes. An optional software module decodes Invisible Personal Information (IPI) embedded within an image.



Sequential Imaging OVD images including holograms and Kinegrams, common on banknotes and security documents, can be viewed as a sequential image using programmed multi-angled lighting. The sequence can be recorded and stored as a video file.



Up to x116 Magnification On-screen magnification of x1.6 to x58 (with optional 2x digital zoom to x116) on the standard 24" monitor affords the examiner a detailed view of a document for the detection of tampering and photosubstitution

Optional Accessories

Document and banknote databases

Two reference databases showing the security features in passports, ID cards, and banknotes.

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 Banknotes database Information and images of over 4,500 banknotes from 184 countries

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

Microscope Options

A range of high magnification imaging systems providing input into the VSC400 via a high resolution video camera. *For full details & specifications see 'VSC Microscopes' datasheet*

High resolution video camera VSC400/CAMFW 3.3MP CCD camera mounts on any suitable microscope to provide an alternative image input.



DVM Microscope V6/DVM

The Foster + Freeman Digital Video Microscope with UV and white light LEDs can be used as a standalone system providing up to x2290 magnification for the examination of taggants.



Leica Microscopes

M205CVSC/LEICA/M205C/SYSM80VSC/LEICA/M80/SYSS6 DVSC/LEICA/S6D/SYS

Examination Accessories

Quartz Glass Holding Plate

V6/QPLATE 200 X 200mm quartz glass plate to hold documents flat during examination.

Magnetic Security Feature Imager

Magnetic ink profiler with USB connection.

Document Support Weight VSC400/LPW Non-marking document weights

Polarised Light Viewer VSC/POLARISAFE UV polarised light viewer for VSC400

X-Y Translation stage V40/400/TRANS Manually adjustable XY stage for accurate positioning of documents.

Uninterupptable Power Supply

V4P/BAT An emergency power supply to prevent data loss should AC power fail.

Nikon

Invisible Information Decoders

Nikon Microscopes

SMZ25 VSC/NIKON/SMZ25/SYS

SMZ18 VSC/NIKON/SMZ18/SYS

SMZ745 VSC/NIKON/745T/SYS

Software to display embedded IPI and ICI on passports and ID cards. Uses Scrambled Indicia Technology supplied under licence from Graphic Security System Corp.

E-Passport and ID Card Readers

Two stand-alone readers that can operate independently of the VSC.

Reader Option 1

- VSC/EREADER1/A
- OCR 601 OCR MRZ, RFID and CARD reader
- Standalone or VSC integrated

Reader Option 2

VSC/EREADER2

- 24-bit multi-document reading and imaging
- Multiple wavelength illumination
- OCR data capture software

Reader Option 3 VSC/EREADER3

- RFID and CARD reader with CCID
- USB connection to PC





foster + freeman

Head Office & UK Sales Office: Foster + Freeman Ltd Vale Park, Evesham, Worcestershire, WR11 <u>1TD UK</u>

+44(0)1386 768050 +44(0)1386 765351

sales@fosterfreeman.com

fosterfreeman.com