

VSC® 90



COMPACT AND COMPREHENSIVE

VSC90: a complete, reliable platform for identifying suspect, counterfeit, and fraudulent documents.

MEETING TODAY'S DYNAMIC DOCUMENT EXAMINATION NEEDS

An Evolution in Versatile Document Examination



VSC90 is available in Two Distinct Hardware Configurations, for use in Fixed or Mobile Scenarios

Available as a standalone field-ready system for mobile deployment, or a lab-ready device, the VSC90 delivers forensic-grade multispectral examination and eChip analysis wherever needed, from fixed laboratories and checkpoints to remote field operations.



Flexible Next-generation VSC STAC Software for Rapid eChip Authentication and Forensic-Level Analysis

Secure Trust Authentication Chain (STAC) eChip analysis software extracts and analyses identity data stored on a document's eChip to provide the highest level of authenticity assurance for e-passports, ID cards, and other critical documents. Seamlessly switch between two powerful new software modes for rapid authentication or detailed forensic analysis.



In fixed locations

Laboratories and Dedicated Examination Facilities

The VSC90 delivers a powerful yet compact solution when operated via an external PC and monitor.

Perform Advanced Examinations

Image annotation and calibrated measurements provide precise documentation, while the advanced comparison and enhancement toolset including 3D imaging, Focus Stacking and Focal Plane Merging, reveals hidden details.



SYSTEM ONLY FOR USE WITH
EXTERNAL PC AND MONITOR



Mobile and Field Deployment

Remote Locations, at the Border, or in a Vehicle

The VSC90 Mobile integrates an onboard PC and touchscreen monitor, creating a self-contained, field-ready system.

In fast-paced environments...

eChip analysis and Facial Identification, coupled with automatic MRZ recognition and data decoders for barcodes, IPI, and LetterScreen+ , extracts critical information instantly.



VSC90 MOBILE WITH
INTEGRATED MONITOR AND PC





VSC® 90

CROSS-EXAMINE PHYSICAL AND DIGITAL DOCUMENT ELEMENTS

Providing True Confidence in Document Authentication

For superior identity authentication, the VSC90 combines physical and digital document interrogation, providing greater confidence than existing technologies.

The VSC90 delivers a complete examination solution by combining forensic-level eChip analysis, comprehensive all-LED multispectral illumination, and seamless reference database integration. This multi-layered cross-checking empowers examiners to authenticate documents with the highest confidence.

Unique to foster+freeman, the VSC90 achieves high-level eChip interrogation, using Secure Trust Authentication Chain (STAC) technology to access, decode, and cross-check all data groups within ICAO-compliant electronic travel documents.

Unlike systems relying on physical inspection, hidden marker detection, and user knowledge, VSC90 workstations equip any examiner with the tools and data to examine every document with true confidence.

INTERNAL RFID READER with VSC STAC

Exceeding the traditional capabilities of a compact system, VSC90 accelerates common identity document checks with an integrated dual-page RFID reader.

Physical Examination

Using Advanced Optical Inspection Technology

Utilise comprehensive multi-spectral illumination and imaging tools to inspect all physical elements of a document to reveal signs of counterfeiting or tampering.

Examine traditional and advanced security features with confidence, using narrowband illumination to 'activate' and/or visualise common and specialist document security features, such as watermarks, holograms, special inks, and security threads, in addition to anti-tampering measures, including perforations, laminates, stitching, and heat-sealed edges etc.

High-resolution imaging optics and versatile LED illumination combine for physical inspections



Holograms



Secure Laminates



UV-Activated Inks



IR Drop-Out Inks



Fine Print Detail



Micro-Printing

Digital Interrogation

Absolute Confidence in Identity Authentication

Developed with support from leading experts, VSC90 includes VSC STAC, a uniquely powerful forensic e-Chip datagroup extraction and interrogation toolset.

VSC STAC robust and comprehensive data inspection leaves no doubt regarding document integrity.

Expert e-Chip analysis ensures confident document authentication



INTERROGATE
RFID e-Chips



UNLOCK
Biometric Data Groups



CONFIRM
eChip Integrity



CROSS-CHECK
Validate Data





VSC[®] 90

VSC90 MOBILE

A self-contained, field-ready system, with embedded PC and integrated touchscreen display.

SELECT THE VARIANT TO MATCH YOUR REQUIREMENT

Versatile Hardware Uncompromising Performance

Despite their distinct form factors, the VSC90 and VSC90 Mobile variants deliver identical, forensic-level performance, sharing the same advanced optical system, multi-spectral LED illumination, and sophisticated eChip analysis capabilities.

Common features include:



Precision Optics for Fast-Focus Live Imaging

High-resolution camera system with a twin-lens 30x zoom.



Full LED Multi-Spectral Illumination

Powerful, precise, and consistent illumination from UV to IR.



Specialist Illumination and Analysis Modes

Advanced forensic-level examination features include: phosphorescence imaging, IR anti-Stokes, 3D Imaging*, off-axis coaxial imaging, and MIC detection.



VSC STAC e-Chip Detection and Interrogation

Extract and decode encoded e-Chip data using BAC and PACE protocols.

VSC90 MOBILE

With Embedded PC and Integrated 17" Touchscreen Display

Addressing the critical need for deployable forensic analysis, the VSC90 Mobile variant provides a fully self-contained and field-ready system.

By integrating an onboard PC and touchscreen monitor, this portable solution enables rapid deployment and immediate analysis in locations such as border checkpoints.

The VSC90 retains the complete VSC90 feature set, ensuring uncompromised forensic capabilities are available wherever they are required.



2 Distinct Hardware Variants

VSC90

Supplied with Embedded *or* External PC and a Choice of Monitor

Designed for fixed locations such as laboratories, the standard VSC90 provides a robust and compact forensic analysis solution.

Supplied with either an embedded or external PC and a choice of 27" or 32" monitor, this variant offers a familiar workflow for in-depth analysis, delivering the full suite of VSC90 forensic capabilities in a compact device.



VSC® 90

Why Choose VSC90?

FORENSIC-LEVEL TECHNOLOGY

NEXT-GEN FULL-HD OPTICS

Examine exceptional quality live images of documents to reveal every intricate detail.

ALL-LED ILLUMINATION

Interrogate documents using 1023 illumination combinations to visualise security features and reveal evidence of tampering.

INTEGRATED RFID READER

Unlock data stored within a documents e-Chip to perform the highest level of authentication checks.

FORENSIC-LEVEL TOOLSET

Perform advanced techniques including 3D surface analysis and off-coaxial imaging.



CONSISTENT RELIABLE PERFORMANCE

CONFIDENT AUTHENTICATION

Verify authenticity and integrity by cross-checking physical documents with encrypted digital data.

AT ANY LOCATION

Flexible hardware options meet the needs of every examiner from the laboratory to the front line.

FOR ANY USER

Simply perform comprehensive document checks via the familiar and time-proven VSC user interface.

A COMPLETE SOLUTION

Standalone, or part of a wider VSC network, the VSC90 provides a fully-featured forensic examination solution.

Versatile Applications

BORDER SECURITY AND IMMIGRATION

AIR, LAND, & SEA PORTS



Whether at airports, ports, fixed checkpoints, or other stationary border security settings, VSC90 provides the tools needed to ensure confident travel and ID document authentication.

MOBILE BORDER SECURITY



With self-contained and mobile configurations available, VSC90 is an ideal tool to undertake watertight document examinations in dynamic situations where flexibility is key.

LAW ENFORCEMENT AND BEYOND

FORENSIC LABS



A fully-featured VSC device, the VSC90 is equipped to extract maximum forensic value from any document examined for investigative purposes.

AND BEYOND



From prisons, to banks, to museums and trading card graders, VSC technology remains the benchmark for forensic-level document examination.



Built in the UK to the Highest Quality Standards

VSC90 is manufactured to meet or exceed safety, testing, and compliance standards, including:

PRODUCT: UKCA, CE, ROHS COMPLIANT (EN 63000:2018)

EMC: EN 61326-1:2013 (LABORATORY EQUIPMENT), FCC 47 CFR

SAFETY: EN 61010-1 (LAB), ELECTRICAL (EST) EN 61010-1:2010

RADIO: ETSI EN 300 330 V2.1.1 (SHORT RANGE DEVICES)

PHOTOBIOLOGICAL SAFETY: EN 62471:2008 (LAMPS), EN 62471

ENVIRONMENTAL: BS EN 60068-2-1:2007, BS EN 60068-2-14

VSC90 System Specification

For full instrument specifications, please contact sales@fosterfreeman.com

A Natural Upgrade, for a Step-Change in Optical Performance

Each VSC device builds on the trusted technology of previous devices to deliver improved performance, capable of authenticating a wider range of security features and identifying the high-quality counterfeits currently available via the criminal black market.

VSC90

Compact workstation supplied with integrated or external PC. External monitor required.



VSC90 Mobile



* Pictured with optional VSC90 Mobile Transportation Case

Base System

Document Imaging

Standard all-LED Illumination Sources

Specialist Illumination Sources

RFID e-Chip Reader

VSC90 Examination Accessories

For full accessory specifications, please contact sales@fosterfreeman.com

System Accessories

Part ID#

Examination Accessories

Part ID#

Facial Identification Accessories

Part ID#

Transportation Cases

Part ID#

Reference Database Subscriptions

Part ID#

Embedded Data Decoders

Part ID#

3D Imaging Software

Part ID#

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Microscope Accessories

Part ID#
