## Specificaţii tehnice

[ Acest tabel va fi completat de către ofertant în coloanele 2, 3, 4, 6, 7, iar de către autoritatea contractantă – în coloanele 1, 5]

Numărul procedurii de achiziție: ocds-b3wdp1-MD-1759748336741

Obiectul de achiziției: Comparator video-spectral pentru controlul de frontieră pentru linia II

Denumirea bunurilor	Denumirea modelului bunului	Țara de origine	Producăto rul	Specificarea tehnică deplină solicitată de către autoritatea contractantă	Specificarea tehnică deplină propusă de către ofertant	Standarde de referință
1	2	3	4	5	6	7
Complex hardware-software destinat verificării detaliate a autenticității documentelor de călătorie. Comparator video-spectral pentru controlul de frontieră pentru linia II	VSC90 MOBILE UNIT	UK	Foster + Freeman Ltd.	Conform specificațiilo r din caietul de sarcini anexat	VSC90 MOBILE UNIT (VSC90/MOBILE) VSC90 MAINFRAME FOR MOBILE (VSC90/MAINFRAME/MOBILE) The VSC90 Mobile is a medium-sized Video Spectral Comparator with embedded computer and integrated touchscreen monitor combining sophisticated multiwavelength digital imaging and illumination technologies with an efficient and easy-to-use software for questioned document examination, particularly practical for mobile deployment. PHYSICAL – VSC Main Unit External Dimensions: - H: 555mm (Max. to top of the integrated touch-screen monitor) - W: 430mm - D: 400mm Internal Base Plate Dimensions: - Max. Width: 404mm - Max. Depth: 326mm Max. Weight: 21kg (VSC main unit with embedded PC and integrated touchscreen monitor) Power Requirements: - 90-264V AC input, 50-60Hz, 130W maximum For safe operation, this product must be connected to a mains power outlet with a protective earth contact Do NOT connect this product to an incompatible mains power supply Note: if the local power supply is potentially unstable, the use of a UPS is recommended. CAMERAS, LENSES AND VIEWING FILTERS Camera	- UKCA, CE (2014/53/EU, 2014/35/E U & 2014/30/E U) and RoHS (EU 2011/65/E U) compliant EN61010-1 safety standard for laboratory equipmen t compliant EN 61326-1:2013 Electrical equipmen t for measure ment,

	- Image sensor: 1/2.8" Sony Starvis 2 CMOS sensor	control
	- Next-Generation Vis-IR Camera: 350–1100 nm spectral	and
	range.	laboratory
	- Optimized for multi-spectral document inspection with a	use –
	high-sensitivity sensor that uses back-illuminated structure	EMC
	for better performance in low light, especially in the IR	requireme
	waveband.	nts – Part
	- Wide dynamic range functionality: Enhances image	1:
	exposure by reducing overblown highlights and improving	General.
	visibility in darker areas.	_
	- Spot focus and exposure modes: Allows for precise	EN62471
	imaging of regions of interest.	photobiol
	- Twin-lens 30x zoom system: Delivers precision with autofocus,	ogical
	continuous, and discrete magnification capabilities.	safety of
	- Colour imaging possible even with the IR Cut filter	lamps
	removed, alongside traditional monochrome imaging.	
		compliant
	- Up to 57 lp/mm (line pairs per millimetre) spatial resolution:	- FCC
	Demonstrates the camera's ability to resolve fine details and	Electroma
	critical information in every image.	gnetic
	Field of View	Compatibi
	- Static Minimum Field of View: 3.6 x 2.0 mm	lity – FCC
	- Static Maximum Field of View: 216 x 120 mm	47 CFR
	- Enhanced Maximum Field of View: 314 x 174 mm (with the	Part
	Transmitted light base removed)	15C
	On-screen Magnification	(Intention
	- Up to 70x (+/- 5%, when Display Resolution set to 1920 x	al
	1080 on 17" FHD Touchscreen Monitor, with display scaling	Radiators
	set to 100%)	).
	High-Precision Continuous Zoom Lens with additional	- FCC
	automatic additional Lens	ICES-003
	- Optical zoom: 30x	Informatio
	- High-Precision optical zoom lens with an extended	nal
	continuous zoom range. Lens produces high resolution	Technolo
	images across the entire field of view with significantly	gy .
	improved distortion correction.	Equipmen
	- Automatic and manual control of Focus and Iris.	t
	Camera Viewing Filters	(including
	- 12 x Long Pass filters: 570nm, 590nm, 610nm, 630nm,	digital
	645nm, 665nm, 695nm, 715nm, 725nm, 780nm, 850nm,	apparatus
	1000nm	).
	- Visible light Bandpass filter	- Foster &
	- Independent IR-Cut filter	Freeman
	ILLUMINATION SOURCES	are ISO
	VSC90 LED illumination sources are selected to provide	9001:201
	optimum compatibility with the system's integral imaging	5 (Quality
	filters. LED/Filtration compatibility is a critical factor in	Managem
	fluorescence imaging because it directly affects the excitation	ent
	efficiency, signal-to-noise ratio, and the ability to selectively	System)
	excite specific document security features or inks.	and ISO
	Incident Flood Illumination (All LED)	14001:20

		- White	15
		- IR: 780nm, 850nm, 940nm, 980nm	(Environm
		Incident UV Illumination (All LED)	ental
		- Long-wave (UV-A): 365nm	managem
		- Mid-wave (UV-B): 308nm +/- 4 nm tolerance	ent
		- Short-wave (UV-C): 255nm +/- 4 nm tolerance	system)
		Transmitted Illumination (All LED)	certified.
		- Flood lighting: White; IR 850nm; Long-wave UV (UV-A)	Environm
		365nm	ental
		- Spot lighting: White; IR 780nm and 850nm	Condition
		Oblique / Side Illumination (All LED)	s:
		- White and IR 850nm	3.
		- Independent left and right illumination, with manual height	
		adjustment	
		Spot Illumination (All LED)	
		- Set of discrete LED illumination for IR fluorescence	
		examination.	
		- 10 x LED Array: White, Violet (410nm), Blue (445nm), Blue	
		Green (475nm), Cyan (500nm), Green (525nm), Amber	
		(590nm), Red (640nm), Deep Red (660nm), Far Red	
		(740nm).	
		- WaveTrim® trimming filters – optimised for fluorescence	
		examination.	
		- 1023 x multi waveband combinations	
		- Multiple LEDs can be used at the same time. (Note:	
		reduced intensity beyond 3 wavebands).	
		- Fluorescence mode – a suitable camera filter will be	
		automatically used with each light source for examining IR	
		fluorescence.	
		- Fluorescence scan	
		OVD Illumination (All LED)	
		- Combined Circular and vertical format White LED array,	
		consisting of 42 x LEDs arranged around the machine.	
		- Improved User Interface – Intuitive, specific angles and	
		scientific.	
		- The OVD scanning allows automatic OVD light sources	
		cycling continuously and seamlessly.	
		- For scanning of Diffractive Optically- variable Devices	
		(DOVD), Hologram, Micro-hologram and Kinegram® security	
		features	
		- Video capture of DOVD security features with playback	
		synchronized to live image viewing with the same pace of the	
		OVD illumination cycling.	
		- Composite image generation.	
		- Mosaic image generation.	
		Coaxial Illumination (All LED)	
		- White LED array with configurable illumination modes: Onaxis	
		(Centre), Off-Axis-Left, Off-Axis-Right.	
		- New enlarged, segmented Coaxial Illumination Array	
	1	(Patent GB2602793A) allows larger imaging area for the	1

examination of laminates and surface features (e.g. Tactile features, Surface embossing etc.) to be imaged. Single Onaxis segment feature (Centre) improves coaxial contrast, whilst Off-axis segment features allow sub-surface laserengraved features to be visualised. - Maximum Coaxial Illumination area: 41mm x 15mm Anti-Stokes Illumination (All LED) - High intensity built-in broadband 980nm LED illumination. - Continuous illumination (with preset working time and cooling interval) for live imaging of the 3rd-Level IR Luminescent security features. 3D Imaging Illumination (All LED) - Available in White, illuminating from four different angles. - For enhanced visible 3D imaging using Photometric stereo technique\*. \*If the optional 3D Imaging Software Module (Part Number: VSC/3D) is ordered. Phosphorescence Illumination (All LED) - Pulsed Long-wave (UV-A) 365nm LEDs. - For luminescence decay imaging of document security features including phosphorescent fibres, inks etc. HARDWARE - VSC Main Unit Embedded RFID reader for Electronic Machine-Readable Travel Document (e-MRTD) examination. Removable Transmitted light base providing larger working distance and field of view, allowing access for thick items. Access flaps are positional with safety interlock - Front and side flaps remain in position when opened to accommodate larger documents. - To prevent light leakage, provide end-user optical safety for UV-B and UV-C light sources, and block stray light. Safety and Compliance: - UKCA, CE (2014/53/EU, 2014/35/EU & 2014/30/EU) and RoHS (EU 2011/65/EU) compliant. - EN61010-1 safety standard for laboratory equipment compliant. - EN 61326-1:2013 Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General. - EN62471 photobiological safety of lamps compliant. - FCC Electromagnetic Compatibility - FCC 47 CFR Part 15C (Intentional Radiators). - FCC ICES-003 Informational Technology Equipment (including digital apparatus). - Foster & Freeman are ISO 9001:2015 (Quality Management System) and ISO 14001:2015 (Environmental management system) certified. **Environmental Conditions:** - For indoor or in vehicle use only. - Ambient operating temperature range: 5°C to 40°C.

- Storage temperature range: -20 to 60°C.
- Maximum relative humidity (RH): 80% RH for temperatures
up to 31°C, decreasing linearly to 50% RH for temperatures
at 40°C.
- Suitable for use at altitudes up to 2000m.
Embedded PC (specifications are subject to change without
prior notice)
The specifications of the embedded PC for working with the
VSC90 are as follows:
- Intel® N97 CPU
- 8GB RAM
- 1 x 128GB SSD
- 1 x USB3, 4 x USB2 Ports on the VSC90 main unit
available to user
Main unit connection ports:
Ports located on the rear panel:
- 1x USB3 port for external computer (USB-B type)
- 2x UBS2 ports for accessories (USB-A type)
- 1x USB3 port for accessory connection (USB-A type)
- 1x DisplayPort for monitor connection (DisplayPort full-size
type)
- 1x Ethernet connection
Port located on the side panels:
- 1x USB2 port for accessories (USB-A type) (Left Side)
- 1x USB2 port for accessories (USB-A type) (Right Side)
SOFTWARE
Standard Software Features:
VSC i Software
- With User specific "User Profile" and "Gallery".
- With Tooltips function.
- Supports Windows 11 operating system with user interface
optimised for QHD (2560 x 1440) & 4K UHD (3840 x 2160)
display resolutions.
Image Viewing, Storage, Retrieval & Video Recording
- Live image viewing with complete control of camera, lens,
illumination, and filter settings.
- Real time Field of View value displayed on the main
software interface.
- Images may be saved as BMP, JPG, J2K, PNG, TIFF,
DNG(RAW), GIF, TGA files with details of light source,
camera filter, magnification, field of view, exposure, iris, gain
settings etc.
- Image rotation, mirror, invert and crop.
- Video recording of live image viewing with details of
illumination, camera filter, magnification, and camera imaging
settings.
- False colour (Pseudo colour) image display.
- Grey scale image display.
- Colour isolation and enhancement by RGB channel
separation

- Yellow colour enhancement to easily visualise the Machine
Identification Code (MIC) or Counterfeit Protection System
(CPS) codes (i.e. the yellow dots) commonly found in colour
laser printed documents.
- Digital zoom up to 16x.
Image Comparison
- Facilities to compare "Live vs Stored" images or "Stored vs
Stored" images side-by-side, superimposed or subtracted,
split, strobed.
Image Annotation and Measurement
- Annotate captured images with text, shapes, and visual
markers etc.
- Calibrated measurement of length, angle, diameter & area
of a circular / ellipse etc.
- The measurement objects and values can be embedded in
the saved image.
Image Enhancement
- Digital image enhancement functions including Brightness,
Contrast, Gamma, Hue, Saturation, Sharpen, Histogram
Equalization, etc.
High Dynamic Range (HDR) Imaging
- Capture and display a wide range of luminance values in a
single image.
- Boost image quality by reducing under/over exposure,
noise, artifacts, and colour shifts in challenging lighting
conditions.
Focal Plane Merging / Extended Depth of Field
- Image processing module to retain sharp focus across the
entirety of the image of document with large thickness
difference.
- Particularly useful when lens zoom is adjusted very high to
observe fine details where the Depth of Field (DOF)
substantially decreases.
Latent Image Viewer
- For visualising "Latent Image" security feature.
- With enhancement tools to increase contrast.  Barcode Reader
- 1D and 2D Barcode reading and analysis functionality including identity document barcode format PDF417.
MRZ recognition and Data reading
- Automatically locate, extract, and decode the ICAO
Machine Readable Zone (MRZ) data from a machinereadable
zone on Passports, Visas, ID cards.
- Data reading using Optical Character Recognition (OCR)
technique, and data validation with discrepancies or errors
being automatically flagged for review.
Automation
- The "Quick Capture" function enables programmable
examination settings and store of images for flexible rapid
document examination and images capture.
and an arranged employed

examination routines. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE VSC90/ACC) - 2 x Paperweights - Document Centring Assembly - Optical Variable Ink (OVI) Viewer - Mouse Mat - Cleaning ClothWilpes - Training Sample (Tutorial Sample) set VSC90 WIRELESS KEYBOARD MOUSE (VSC90/WKM) USB3 FLASH DRIVE (FLASH-DRIVE128GB-USB3)- USB Memory Stick (containing Software Installer, Digital User Manual and Quick Start Guide Documents etc.) VSC90 MOBILE TOUCH SCREEN (284-190-AS-01) - Seamless Integrated Touchscreen setup - Full HD 17" (1920 x 1080) Monitor - Adjustable Tilitable Stand with Concealed Cabling VSC EXTENDED RFIO CAPABILITY (VSC/RFID)A software module to facilitate Basic Access Control (BAC) and Password Authenticated Connection Establishment (PACE) with Extended Access Control (EAC) capability for ePassport chip data reading and authentication including Terminal Authentication (TA), Passive Authentication (PA), Assover Authentication (AA), and Chip Authentication (CA) allowing user to view all personal data contained on the RFID chip of an electronic Machine- Readable Travel Document (eMRTD). This is valid for VSC9000, VSC900, VSC90, VSC900/HS and VSC/PDI+ S YEAR EXTENDED WARRANTY IN ADVANCE 2 years standard plus 3 additional years		- User-defined Macros creation to automate common
WITHOUT PRIOR NOTICE VSC90/ACC) - 2 x Paperweights - Document Centring Assembly - Optical Variable Ink (OVI) Viewer - Mouse Mat - Cleaning ClothWipes - Training Sample (Tutorial Sample) set VSC90 WIRELESS KEYBOARD MOUSE (VSC90/WKM)  USB3 FLASH DRIVE (FLASH-DRIVE128GB-USB3)- USB Memory Stick (containing Software Installer, Digital User Manual and Quick Start Guide Documents etc.) VSC90 MOBILE TOUCH SCREEN (284-190-AS-01) - Seamless Integrated Touchscreen setup - Full HD 17" (1920 x 1080) Monitor - Adjustable Tillable Stand with Concealed Cabling VSC EXTENDED RFID CAPABILITY (VSC/RFID)A software module to facilitate Basic Access Control (BAC) and Password Authenticated Connection Establishment (PACE) with Extended Access Control (EAC) ocapability for ePassor chip data reading and authentication including Terminal Authentication (TA), Passive Authentication (PA), Active Authentication (AA), and Chip Authentication (PA), allowing user to view all personal data contained on the RFID chip of an Electronic Machine- Readable Travel Down (VSC9000, VSC900, VSC8000/HS and VSC/PDI+ S YEAR EXTENDED WARRANTY IN ADVANCE 2 years		examination routines.
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- Document Centring Assembly - Optical Variable Ink (OVI) Viewer - Mouse Mat - Cleaning Cloth/Wipes - Training Sample (Tutorial Sample) set VSC90 WIRELESS KEYBOARD MOUSE (VSC90WKM) USB3 FLASH DRIVE (FLASH-DRIVE128GB-USB3)- USB Memory Stick (containing Software Installer, Digital User Manual and Quick Start Guide Documents etc.) VSC90 MOBILE TOUCH SCREEN (284-190-A8-01) - Seamless Integrated Touchscreen setup - Full HD 17" (1920 x 1080) Monitor - Adjustable Tiltable Stand with Concealed Cabling VSC EXTENDED RFID CAPABILITY (VSC/RFID) software module to facilitate Basic Access Control (BAC) and Password Authenticated Connection Establishment (PACE) with Extended Access Control (EAC) capability for Passport chip data reading and authentication including Terminal Authentication (TA), Passive Authentication (PA), Active Authentication (AA), and Chip Authentication (CA), allowing user to view all personal data contained on the RFID chip of an Electronic Machine- Readable Travel Document (eMRTD), This is valid for VSC9000, VSC900, VSC900, VSC8000/HS and VSC/PDI+ 5 YEAR EXTENDED WARRANTY IN ADVANCE 2 years		,
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(containing Software Installer, Digital User Manual and Quick Start Guide Documents etc.)  VSC90 MOBILE TOUCH SCREEN (284-190-AS-01)  - Seamless Integrated Touchscreen setup - Full HD 17" (1920 x 1080) Monitor - Adjustable Tiltable Stand with Concealed Cabling VSC EXTENDED RFID CAPABILITY (VSC/RFID)A software module to facilitate Basic Access Control (BAC) and Password Authenticated Connection Establishment (PACE) with Extended Access Control (EAC) capability for ePassport chip data reading and authentication including Terminal Authentication (TA), Passive Authentication (PA), Active Authentication (AA), and Chip Authentication (CA) allowing user to view all personal data contained on the RFID chip of an Electronic Machine- Readable Travel Document (eMRTD). This is valid for VSC9000, VSC90, VSC8000/HS and VSC/PDI+ 5 YEAR EXTENDED WARRANTY IN ADVANCE 2 years		(FLASH-DRIVE128GB-USB3)- USB Memory Stick
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5 YEAR EXTENDED WARRANTY IN ADVANCE 2 years		This is valid for VSC9000, VSC900, VSC90, VSC8000/HS
		and VSC/PDI+
standard plus 3 additional years		5 YEAR EXTENDED WARRANTY IN ADVANCE 2 years
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