

Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

| | | |
|--|---|--|
|  <p>UKAS TESTING</p> <p>7866</p> <p>Accredited to ISO/IEC 17025:2017</p> | <h3>Chief Constable of West Mercia Police</h3> <p>Issue No: 036 Issue date: 01 April 2025</p> | |
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| <p>Testing performed at the above address only</p> | | |

DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|---|---|
| <p>MARKS and IMPRESSIONS</p> <p>FINGER MARKS</p> <p>Any material capable of retaining friction ridge marks</p> | <p><u>Forensic Testing</u></p> <p><u>Forensic Analysis</u></p> <p>Enhancement of finger marks, palm marks and plantar marks</p> | <p>The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice in relation to the Forensic Activities listed below.</p> <p>Documented in-house methods using chemical and physical enhancement techniques (method numbers provided in brackets):</p> <ul style="list-style-type: none"> - Cyanoacrylate (CNA) Fuming (FS-SOP-FEL-04) - Basic Yellow 40 (BY40) (aqueous & ethanolic) (FS-SOP-FEL-05) - Ninhydrin (FS-SOP-FEL-03) - Powdering Techniques : (FS-SOP-FEL-08) aluminium flake powder, magneta flake powder black magnetic powder - Powder Suspensions (FS-SOP-FEL-07): Carbon based - black, Titanium Dioxide based white Iron Oxide based - black - Physical developer (FS-SOP-FEL-15) - Acid dye treatments – ethanol based (FS-SOP-FEL-14) Acid black 1, Acid yellow 7 - 1,2 – Indandione (FS-SOP-FEL-09) |



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| <p>MARKS and IMPRESSIONS (cont'd)</p> <p>FINGER MARKS (cont'd)</p> <p>Any material capable of retaining friction ridge marks (cont'd)</p> | <p><u>Forensic Analysis</u> (cont'd)</p> <p>Enhancement of finger marks, palm marks and plantar marks (cont'd)</p> | <p>Documented in-house methods using visual and lighting enhancement techniques:</p> <ul style="list-style-type: none"> - Visual examination - White Light Crimelite 2 and 82s (FS-SOP-FEL-01) - High Intensity Light Sources (FS-SOP-FEL-02) Crimelite 82s Uv ($\lambda = 350-480\text{nm}$) Violet ($\lambda = 395-425\text{nm}$) Blue ($\lambda = 420-470\text{nm}$) Blue/green ($\lambda = 450-510\text{nm}$), Green ($\lambda = 490-560\text{nm}$) Orange ($\lambda = 570-610\text{nm}$) Red ($\lambda = 600-650\text{nm}$) <p>Crimelite ML2 Uv ($\lambda = 350-480\text{nm}$) Blue ($\lambda = 420-470\text{nm}$), Green ($\lambda = 480-560\text{nm}$)</p> <p>Crimelite 80s Blue ($\lambda = 430-470\text{nm}$) Green ($\lambda = 500-550\text{nm}$)</p> |
| <p>Any material capable of retaining friction ridge marks</p> | <p>Enhancement of finger marks, palm marks and plantar marks</p> | <p>Documented in-house methods for imaging/digital capture:</p> <ul style="list-style-type: none"> - Digital SLR (FS-SOP-FEL-10) |
| <p>Developed fingerprint marks</p> | <p>Determination of the presence of friction ridge characteristics for the purpose of subsequent comparison</p> | <p>Documented in-house methods using visual examination (FS-SOP-FEL-01, 02 and FS-WI-FEL-06)</p> |



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| <p>FRICTION RIDGE DETAIL</p> <p>Finger and Palm (Non-Cadaver)</p> <p><u>Marks</u></p> <ul style="list-style-type: none"> - CSI/FEL Recovered Lifts from physical scenes - CSI/FEL Photographs of marks from physical scene - Fingerprint Enhancement Laboratory Recovered Lifts from physical items - Fingerprint Enhancement Laboratory Photographs of marks from physical items <p><u>Ten Prints</u></p> <ul style="list-style-type: none"> - Ink - Powder - Livescan | <p><u>Forensic Analysis (cont'd)</u></p> <p>Analysis, comparison, and evaluation of Friction Ridge Detail as outlined below for the purpose of:</p> <ul style="list-style-type: none"> - Criminal Investigation - Elimination Databases <p><u>Comparison with Ten Prints</u></p> <ul style="list-style-type: none"> - Ink - Powder - Livescan <p><u>Comparison with Marks</u></p> <ul style="list-style-type: none"> - CSI/FEL Recovered Lifts from physical scenes - CSI/FEL Photographs of marks from physical scenes - Fingerprint Enhancement Laboratory Recovered Lifts from physical items - Fingerprint Enhancement Laboratory photographs of marks from physical exhibits | <p>Documented in house procedures utilising automated search techniques for initial screening to identify candidate items to go forward for manual comparison:</p> <ul style="list-style-type: none"> - Ident 1 - High Quality Printer - Computer screen - Reference collections <p>Documented in house procedures using visual manual techniques:</p> <ul style="list-style-type: none"> - Fingerprint glass - Reference collections - Comparators (optical) - High Quality Printer <p>Documented in house procedures utilising automated search techniques for initial screening to identify candidate items to go forward for manual comparison:</p> <ul style="list-style-type: none"> - Ident 1 - High Quality Printer - Computer screen - Reference collections <p>Documented in house procedures using visual manual techniques:</p> <ul style="list-style-type: none"> - Fingerprint glass - Reference collections - Comparators (optical) - High Quality Printer |



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| FRICITION RIDGE DETAIL (cont'd) | <u>Forensic Analysis</u> (cont'd) | |
| Finger and Palm (Non-Cadaver) (cont'd) | <u>Opinion and Interpretation</u> The evaluation of the significance of any matching and non-matching features between sources of friction ridge detail as outlined in the above scope of accreditation. | Documented In-House methods using <ul style="list-style-type: none"> - Personal experience - database |
| FOOTWEAR | Coding of scene marks | Documented in house method (FS-SOP-FWU-01) – <i>reference to NFRC system (National Footwear Reference Collection)</i> |
| | Production of test marks from suspect footwear | Documented in house method (FS-SOP-FWU-02) using <ul style="list-style-type: none"> - Dynamic Oil and Black Magnetic Powder Method - Static Powdering Method (Aluminium flake & black granular) |
| | Enhancement of marks from scenes | Documented in house methods <ul style="list-style-type: none"> - Gel lifting - (FS-SOP-FWU-03 and 04) - Digital capture photography and scanning |
| FOOTWEAR | Screening of suspect footwear by pattern type, size, wear and feature | Documented in house method (FS-SOP-FWU-02) |
| Footwear mark (physically or image) | Assessment, Comparison and evaluation of footwear with scene marks | Documented in house method (FS-SOP-FWU-02) using visual examination and dimensional measurements |



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| <p>DIGITAL DEVICES AND DATA</p> <p>Computers</p> <p>Computers and digital storage devices</p> <ul style="list-style-type: none"> - Hard disk drives - Solid state drives - USB flash drives - Memory cards <p>Computers and digital storage devices</p> <ul style="list-style-type: none"> - Hard disk drives - Solid state drives <p>Data associated with the following:</p> <ul style="list-style-type: none"> - Microsoft Windows - macOS - Linux/Unix <p>Data associated with the following:</p> <ul style="list-style-type: none"> - Microsoft Windows - macOS - Linux/Unix <p>Mobile phones</p> <p>Mobile phone handsets and tablets associated with the following operating systems:</p> <ul style="list-style-type: none"> - Apple iOS - Apple iPadOS - Android - Non-smartphone proprietary systems | <p><u>Forensic Analysis</u></p> <p>Capture and preservation of data</p> <p>Capture and preservation of data</p> <p>Processing of data</p> <p>Analysis of data</p> <ul style="list-style-type: none"> - Keyword analysis - Manual Bookmarking - File Data Filtering <p>Capture and Preservation of data</p> | <p>Documented in-house method(s) (FS-SOP-DF-01, FS-SOP-DF-27) using:</p> <ul style="list-style-type: none"> - FTK Imager - Paladin - Tableau T8u - Tableau T35u <p>Documented in-house method(s) (FS-SOP-DF-01) using:</p> <ul style="list-style-type: none"> - Digital Collector <p>Documented in-house method(s) (FS-SOP-DF-04) using:</p> <ul style="list-style-type: none"> - AXIOM - X-Ways Forensics <p>Documented in-house method(s) (FS-SOP-DF-04) using:</p> <ul style="list-style-type: none"> - AXIOM - X-Ways Forensics <p>Documented in-house method(s) (FS-SOP-DF-19, 24) using:</p> <ul style="list-style-type: none"> - XRY - UFED 4PC - Manual examination using Digital Camera, Cellebrite Screenshot |



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| DIGITAL DEVICES AND DATA (cont'd) | <u>Forensic Analysis</u> (cont'd) | |
| Mobile phone handsets and tablets associated with the following operating systems: - Apple iOS - Apple iPadOS - Android | Capture and Preservation of data | Documented in-house method(s) (FS-SOP-DF-07) using: - Graykey |
| Mobile phone handsets and tablets associated with the following operating systems: - Apple iOS - Apple iPadOS - Android - Non-smartphone proprietary systems | Processing of data | Documented in-house method(s) (FS-SOP-DF-24) using: - XRY/XAMN - Physical Analyzer |
| Memory cards associated with mobile phone handsets and tablets | Capture and preservation of data | Documented in-house method(s) (FS-SOP-DF-27) using: - FTK Imager - Tableau T8u |
| (U)SIM cards | Capture and preservation of data | Documented in-house method(s) (FS-SOP-DF-25) using: - XRY - UFED 4PC |
| (U)SIM cards | Processing of data | Documented in-house method(s) (FS-SOP-DF-25) using: - XRY - XAMN - Physical Analyzer |
| VIDEO MULTIMEDIA RECOVERY, PROCESSING and ANALYSIS | <u>Forensic Analysis</u> | |
| Digital Video Recorders | Capture and preservation of data - Export video (exporting files using CCTV system, copying via analogue or digital output) | Documented in-house method(s) (FS-SOP-DF-32) using: - Manufacturers approved method |



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| VIDEO MULTIMEDIA RECOVERY, PROCESSING and ANALYSIS (cont'd) Digital Storage Devices - Hard disk drives - Solid State Drives Digital Storage Devices - Memory cards - USB flash drives - Compact discs - Digital versatile discs Digital Images/Video | <u>Forensic Analysis (cont'd)</u> Capture and preservation of data - Transfer/Recovery of data Capture and preservation of data - Imaging/Cloning of device - Transfer/Recovery of data Processing of digital images/video - Production of digital stills | Documented in-house method(s) (FS-SOP-DF-32) using: - DVR Examiner Documented in-house method(s) (FS-SOP-DF-32) using: - FTK Imager Documented in-house method(s) (FS-SOP-DF-32) using: - Amped Five - A range of CCTV proprietary software players |
| END | | |