IM SOP-2 Equipment

Document ID: 1188

Revision: 1

Effective Date: 8/15/2014

Status: Published Page 1 of 3

Approved by Director: Dr. Guy Vallaro

Purpose: The following is a list of specialized instrumentation, tools, equipment and materials maintained at the Forensic Science Laboratory which are commonly used by the examiner(s) conducting routine imprint examinations.

A. Optical Enhancement Devices

- 1. Hand-held magnifiers (various magnification powers)
- 2. Stand [fingerprint] magnifiers (various magnification powers)
- 3. Microscopes (variable magnification powers)
- B. Alternate Light and Filtering Equipment/Devices
 - 1. Video Spectral Comparator (VSC-2000 and VSC-4)
 - a. High intensity tungsten halogen lamp with various filters
 - b. Ultraviolet light source with various filters
 - c. Infra-red light source with various filters
 - d. Transmitted light source with variable intensity control

SPECIAL NOTE: Calibration(s) and/or repairs to the VSC-2000 and VSC-4 will be performed by the manufacturer/factory representative(s). Proper documentation referencing the calibration(s) and/or repairs will be maintained by the Imprints/Questioned Document Section.

C. Photographic/Duplication Equipment

- 1. Digital camera and accessories
- 2. Tripod
- 3. Photographic Copy Stand
- 4. Scanner

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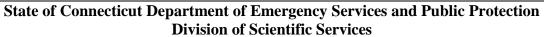
Revision: 1

Effective Date: 8/15/2014

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Page 2 of 3

- 5. Color/black and white printers
- 6. Color/black and white photocopiers
- D. Electrostatic Dust Print Lifter
- E. Electrostatic Detection Apparatus (ESDA)
- F. Miscellaneous Tools
 - 1. Protractors
 - 2. Calipers
 - 3. Scales/rulers
 - 4. Angle finder
- G. Miscellaneous Materials
 - 1. Casting material
 - 2. BIO-FOAMTM
 - 3. Fingerprint powders
 - 4. Fingerprint ink
 - 5. Inkless imprint kit
 - 6. Display board/butcher paper
 - 7. Adhesive lifters
 - 8. Electrostatic lift film
 - 9. Gelatin lifters (white, black, and transparent)
 - 10. Transparencies



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Page **3** of **3**

11. Spray paint/snow print wax

12. Fixative spray/hair spray

NOTE: Operation manuals for instrumentation, equipment and tools maintained by the Imprint Unit will be kept on file within the Unit.

Responsibility: Imprint Examiners

Safety: All proper personal protection equipment will be used as appropriate.

Procedure:

A. Purchasing of Supplies

- Supplies will be purchased from approved vendors through section supervisory personnel and administrative personnel.
- Upon receipt of the item, a visual inspection of the packaging will be performed to ensure that the integrity of the product is intact and the correct item has been received.
- 3. Prior to the use of a supply item or consumable, a visual inspection will be performed.
- The examiner will use their discretion based on their training and experience to determine if a product is suitable to use.
- 5. If a product is unsuitable for use, the product will be discarded and another product unit will be used.
- Supplies and consumables will be stored in a clean, dry environment or an environment suggested by the manufacturer.
- All records of purchases are maintained in the purchasing files located in the Administration area.

Sources of Error: N/A

Quality Assurance: N/A

References: See bibliography.