

ESDA[®]-Lite

foster + freeman

THE IMAGING SYSTEM FOR INDENTED WRITING



ESDA-Lite

The new portable system for detecting indented writing on questioned documents

Features include:

- Complete, portable system weighing less than 18kg
- Cascade and Toner Pad development techniques
- Document examination bed 230mm x 358mm
- Universal power input for 'go-anywhere' operation
- Fast and simple to operate with no interference with other forensic tests



ESDA®-Lite

ESDA®-Lite a proven system that's now portable

Designed for travelling, the new 'ESDA®-Lite' is ideal for the private document examiner commissioned to work away from the laboratory and is supplied complete with accessories in a robust, padded carrying case that's suitable for air travel.

Electrostatic imaging, the most effective technology for detecting indented writing on questioned documents, creates an invisible image of indented writing, which is visualised by the application of charge sensitive toners. The sensitive imaging process reacts to sites of microscopic damage on the surface of a document, which have been created by the abrasive interaction with overlying surfaces during the act of handwriting.

ESDA® is the ideal forensic tool. As well as being simple to operate, it produces positive, life-size transparencies of indented writing without damage or contamination to the original document and without interference to other forensic tests, and documents may be processed repeatedly without loss of sensitivity.

ESDA®-Lite Cascade and Toner Pad development techniques

ESDA®-Lite is supplied with a choice of development techniques, in both cases the document being examined is placed on to the vacuum bed and overlaid with the imaging film. The corona discharge unit is passed over the film two or three times to charge the surface and form latent images of the indentations present.

Development of a visible image is achieved by either lifting the vacuum bed to an angle and pouring cascade developer (*fine beads coated with toner*) over the surface of the film. This process is continued until a satisfactory image is obtained. The developer beads are collected in a tilting tray on the side of the instrument for further use.

In situations when cascade development is not convenient the Toner Pad technique can be used. A soft, brushed-textile pad, impregnated with toner is wiped across the surface of the imaging film to produce visible images. Each hand held pad has an integral reservoir of toner which is simply dispensed into the pad, prior to use, with a light tap.

If, after inspection, the results are required for record, a protective sheet of transparent adhesive film can be laid over the image to produce a permanent image. This is peeled away from the document which is recovered completely undamaged.

ESDA®-Lite specifications

ESDA®-Lite is designed for examining all types of documents and is supplied with imaging film, cascade developer, toner pads, fixing film, humidity chamber and a humidity meter.

Document examination bed:	358 mm x 230mm (14" x 9") <i>Larger documents can be folded without loss of resolution.</i>
ESDA-Lite:	420mm x 295mm x 155mm (16 ¹ / ₂ " x 11 ¹ / ₂ " x 6 ¹ / ₄ ").
Power input:	90 to 240 VAC.
Weight:	17.9kg (39lbs) <i>total weight of case, equipment and accessories.</i>
Case dimensions:	500mm x 400mm x 320mm (19 ¹ / ₂ " x 15 ¹ / ₂ " x 12 ¹ / ₄ ").

ESDA®-Lite ordering information

ESDA®-Lite (complete system)

Instrument plus document humidifier, humidity meter, 1.5kg reel of imaging film (250mm wide), 50 sheets of self-adhesive, transparent fixing film (363 x 234mm), 500g cascade developer, 120g toner, 5 TAD toner applicators and carrying case

Order code: ESDA-Lite

Consumables

ESDA®-Lite imaging film, 1.5kg reel

Order code: E9

ESDA®-Lite toner, 120g pot

Order code: E10

ESDA®-Lite cascade developer, 250g pot

Order code: E11

ESDA®-Lite self-adhesive fixing film, 50 sheets

Order code: E12

Toner Applicator (TAD), pack of 10

Order code: E/TAD



The imaging film and developers are safely located under the vacuum bed for compact transportation. ESDA®-Lite is quickly operational by simply attaching the imaging film roll onto the locating pins.



Foster & Freeman Ltd reserve the right to alter the specification of ESDA®-Lite or any accessories without prior notice.

Appointed Agent:

foster + freeman

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