ESDA²

THE IMAGING SYSTEM FOR INDENTED WRITING

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ESDA²

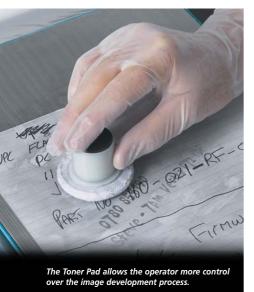
Outstanding technology with improved design

ESDA is the leading technology for detecting indented writing on questioned documents. ESDA works by creating an invisible electrostatic image of indented writing, which is then visualised by the application of charge sensitive toners. The sensitive imaging process reacts to sites of microscopic damage to fibres at the surface of a document, which have been created by 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 original documents and without interference to other forensic tests, and documents may be processed repeatedly without loss of sensitivity.

A new image development system

Traditionally, cascade developers have been used in the image development process but ESDA² is supplied with a new system - the Toner Pad – a technique that ensures a cleaner operating experience while maintaining excellent sensitivity.



A soft, brushed-textile pad, impregnated with toner is simply wiped across the surface of the imaging film to produce visible images of any indented writing present. Each hand held pad, has an integral reservoir of toner, sufficient for 200 images, which is simply dispensed into the pad, prior to use, with a light tap. The new system is cleaner to use; it removes the need to handle loose

The new system is cleaner to use; it removes the need to handle loose powder and, as the concentration of toner in the pad is easy to control, it eliminates problems associated with under-or over-toned cascade developer.

The Toner Pad gives the operator better control of the image development process as it can be applied to specific areas of interest. It also eliminates the need to constantly recover cascade beads.



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ESDA² is supplied with a document humidifier for sensitising documents to the electrostatic imaging process.

High sensitivity maintained

Although completely new, the Toner Pad generates tribo-electrically charged toner with the same image development capability as the original cascade beads. The resilient electrostatic image on the surface of the imaging film is totally unaffected by the action of the pad as it is wiped across the film's surface, allowing the electrostatic image to be worked over and over with the Toner Pad until a satisfactory image is obtained. ESDA² retains the standard cascade developer, however, for those who prefer the traditional method.

New A3 size bed with airborne toner filter

The larger vacuum bed and wider imaging film enable documents up to A3 size (310mm x 440mm) to be processed. The new stainless steel vacuum bed is also easily replaced.

ESDA² also features a powerful extraction fan and filter to remove airborne toner. Air above the instrument is drawn around the sides of the vacuum bed and through the filter to create a cleaner operating environment.

Permanent records

Images of indented writing can be made permanent by the simple process of laminating the developed images with transparent self-adhesive plastic film.

ESDA² – the complete system

ESDA² is designed for examining all types of documents up to A3 size and is supplied with one reel of imaging film, cascade developer, 50 toner pads, a pack of fixing film and document humidifier. Foster & Freeman are always pleased to offer advice, training or routine equipment maintenance, and ESDA² is just one of a range of innovative instruments available to forensic science laboratories for improving the quality of evidence.

Foster & Freeman Ltd reserve the right to alter the specification of ESDA² or any accessories without prior notice.

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