

Technologies Explained – CanoScan 9000F

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Auto Document Fix

Auto Document Fix delivers beautiful and easy-to-view scan results by automatic advanced image analysis and area-by-area data correction. The technology achieves highly accurate separation between text and images by employing analysis of colour composition and rate of change in intensity; it then applies corrections on an area-by-area basis. These corrections include text character emphasis and background removal, and dot smoothing and contrast/tone for images.

Auto Photo Fix II

Auto Photo Fix II analyses and corrects digital photos using multi-zone correction, ensuring optimum results for printing, even with under-exposed photos. For portraits, subjects' faces are detected and adjustments applied to skin tones and brightness. With landscape photos, emphasis is placed on optimising the vividness and contrast. When a photograph contains both people and scenery, the technology balances the adjustments for both areas.

Auto Scan Mode

Auto Scan Mode allows users to create high quality scans, with optimised settings, using a simple, one-click process. Accessed via the device itself, or via ScanGear or MP Navigator EX software, Auto Scan Mode automatically detects the type of source material – from text documents to multiple photo prints – then optimises settings for resolution, cropping and image processing before scanning. The scan is then automatically saved in either JPEG file format for images or as a PDF for documents, newspapers and magazines.

Scan to PDF Functionality

Scanning to PDF means that paper documents can be quickly converted into standard electronic documents. Using character recognition technology, the documents can be easily searched by keywords and the new PDF compression function creates files that are up to approximately 90% smaller than previous versions.

MP Navigator EX

MP Navigator EX is comprehensive input software for managing and editing scanned images and documents including user-friendly PDF editing features and a selection of image correction and enhancement options.

Film Automatic Retouching Enhancement (FARE) Level 3

When scanning film, visible light is used to generate the image, but this also captures the dust and scratches. FARE Level 3 works by also using infrared (non-visible) light. Infrared passes through the surface imperfections, creating a 'map' of defects. Intelligent software then corrects these defects, virtually eliminating the effect of dust and scratches.

Reconstruction of colour corrects the effects of ageing by resaturating faded colours in old photographs and a grain correction function reduces graininess resulting from the use of fast (high ASA) film. To improve images with heavy backlighting, FARE Level 3 uses a backlight correction function to detect precisely which areas of the image need correction. It adjusts only the gamma of those areas, resulting in superior quality, more balanced images.