DataComIT DRS Microfiche Scanner

Fully automatic microfiche scanner

The DRS will automatically feed the microfiche (up to 200 fiche or 100 jackets). The DRS is able to scan images from fiche automatically without operator intervention. It comes with top of the line software built in to the scanning process, which allows it to compensate for images that are of varying contrast. The DRS has a 2300 x 3500 pixel CCD Camera, resulting in the whole image being scanned versus a line scanner which scans across the image.

Key Features

Scanning of microfiche and microfilm jackets

- High spatial resolution, increasable by stitching (assembly of images by using software solutions).
- High reading rate and exposures of constant quality.
- Tuned precision optics.
- 12 bit dynamics range, even minor changes of contrast are detected.
- Individual quality optimisation for every document.
- Chip-on-board-technology =>light exposure without wear and tear.

Unique characteristics

- Innovative feeder technology => large quantity capacity of microfiche.
- Nearly contactless => reliable separating of microfiche.
- Open software design => individual customisation.
- X-Y positioning table =>-precise pixel positioning and stitching feature.
- Application of dual camera systems.

The customer's advantages

- Highest quality, wear-resistant, fast, user-specific
- High capacity, economical, reliable
- The ultimate solution

Technical Specifications

Resolution	Up to 300dpi (higher resolution is possible) 12bits grayscale images with high dynamic range resolution.
CCD Camera	2300 x 3500 pixels.
Fiche/Jacket types	All fiche and jacket types incl. COM, AB-Dick, silver, diazo, positive, negative, duplex, cine-mode, comic-mode. Jackets 16mm and 35mm.
Reduction factor	15 times up to 48 times.
Fiche/Jacket formats	105mmx148mm and 103mmx152mm (metric, imperial), others on request.
Fiche/Jacket feeding	Automatic, low touch, because nearly contactless template container contains up to 200 fiche, automatic turnover of the scanned fiche and jackets. Loading in original order.
Document recognition	Precise automatic position recognition of documents on the fiche and jackets, also for difficult and low-contrast samples. Additional raster scan possible. Manual document recognition possible.
Quality	Individual quality optimisation of every document by automatic contrast optimisation. Constant exposure by chip-on-board exposure technology. No motion during digitizing process. Precise pixel positioning of the fiche/jackets by a high-class X-Y positioning table.
Image processing	Automatic trimming and rotating of documents. Customised demand possible by open software design.
Output formats	TIFF, JPEG, Multipage formats, customised image formats like MOD:CA possible.
Equipment/System components	Embedded Windows-based industrial computer incl. system-control. 100Mbits ethernet-interface for data transfer. LCD-monitor for progress control, system control and features, keyboard and mouse, Feeder with sample container and over-turning system optional.
Customisation	Receiver device is designed to special fiche/jacket formats; overview recognition is designed to special samples. Customised indexing.