

ACS Monochrome

APERTURE CARD SCANNERS



SCANNING

2D-Adaptive Thresholding
High-quality grayscale
Crisp, clear black-and-white
High volume scanning

The Contex ACS Aperture Card Scanners are monochrome scanners for microfilm mounted on aperture cards. They are cost effective solutions for fast, high volume scanning and workstation engineering. The Aperture Card Scanners are available in either built-in automatic card feeder or single card feed models.

Scanning Superiority

The ACS scanners automatically digitize drawings from E-Size/A0 to A-size/A4 stored on aperture cards, and oversizes up to 59"x44", with reduction ratios from 37x to 7.5x. The punched Hollerith code in the cards can be used for automatic drawing size selection and file naming.

You select the right resolution - 400, 300, 240, 200, 150, 100, 75 or 50 dpi as measured on the unreduced document to match your requirements and storage capabilities. The scanners create raster files, with more than 50 formats selectable, compatible with virtually all third party software.

The ACS scanners are very fast, scanning up to 300 cards/hour, depending on the size of the unreduced document on the card. A typical D-size CAD drawing directly to RLC format takes 19 seconds at 200 dpi.

Image Enhancement Power

The reliable and effective ACS scanners reproduce your images in high-quality grayscale and crisp, clear black-and-white. The ACS scanners use fast and reliable monochrome image enhancement techniques.

The Aperture Card Scanners support automatic enhancement features. 2D-Adaptive Thresholding is performed in real time with the hardware embedded Digital Signal Processor. The adaptive processing automatically compensates for varying background, faded areas and stains. The ACS scanner will give you clean crisp scans and printouts even from poor quality originals.

Take image enhancement even further with speckle removal and hole-filling performed on-the-fly as you scan. Electronic deskew lets you automatically align your image for perfectly horizontally-aligned drawings.

When scanning with 256 graytone levels, you can interactively adjust brightness and contrast on-line.

Total Scanning Control

Scanning with the ACS scanner is controlled through the WIDEimage software with its two viewing windows that enable you to interactively move around the drawing as you preview expected results of settings directly on your screen.

You can set a flexible "Scan Window" directly on your image preview and use it to capture limited portions of the drawing. You can select image mirroring and image reversal to be carried out while you scan.

WIDEimage supports the ASC scanners with user-friendly menus for setting your drawing size, automatic scaling, automatic file naming, batch scanning, Hollerith code interpretation and printing.

Through the WIDEimage scanning software, you can convert between the over 50 industry standard file formats. WIDEimage supports all your scanning tasks including on screen viewing, zooming and measuring of relative distances.



Before and after 2D-Adaptive Thresholding

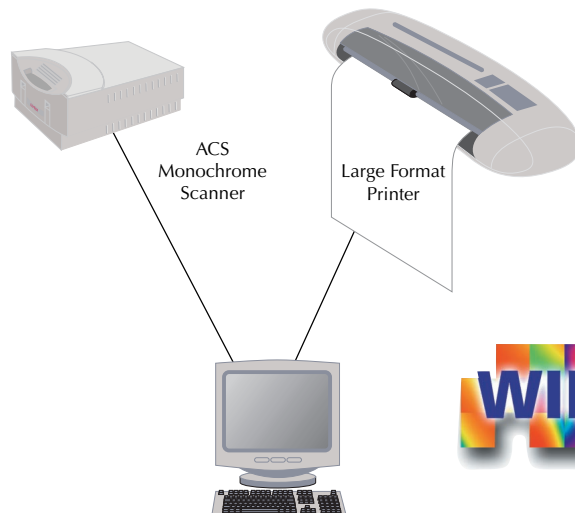
ACS Scan and Copy System

SCAN

- Selectable resolutions between 50 and 400 dpi.
- Punched card reader.
- High volume batch scanning.
- Real-time image processing.
- 2D-Adaptive thresholding.
- Scanning to over 50 industry standard file formats.

WIDEimage Scanning Software

- Prescan and preview.
- File format conversion.
- Flexible adjustment controls.
- Rotation & alignment.
- Precision measuring.
- Viewing and zooming.
- For Windows 98, NT4.0, 2000, ME.



WIDEimage

The two ACS scanner models come in either manual feed or automatic feed versions.

ACS Aperture Card Monochrome Scanner Models		4100	4200
Card Feeding:		Manual Single Card	Automatic 100 Cards
Aperture Cards:	MIL, ISO & DIN standards* Silver and Diazo Film Odd or Even generation copies	X X X	X X X
* MIL-C-9877B, MIL-C-9949, MIL-D-9868, ISO 3272 and DIN 9052.			
Punched Card Reader:	Reads Hollerith code for automatic scaling and file naming	X	X
Maximum Resolution:		400	400
Selectable Resolutions:	50, 75, 100, 150, 200, 240, 300, 400	X	X
Reduction Ratios Presets:	37x, 36x, 30x, 24x, 21.2x, 16x, 15x, 10.5x, 7.5x	X	X
Variable Reduction Ratios:	with WIDEimage software	X	X
Scanning Speed:	Scans a typical D-size drawing at 200 dpi in ...	19 seconds	19 seconds
Digital Image Processing:	Interactive Threshold Setting 2D-Adaptive Thresholding Dynamic Line Enhancement Deskewing and Despeckling	X X X X	X X X X
Scan Modes:	8 bit graytone 1 bit black-and-white	X X	X X
Sensors:	Configuration of CCDs Pixels	Single 8.000	Single 8.000
Light Source:	Stabilized halogen lamp	X	X
Optics:	Apochromatic lens	X	X
Interface:	SCSI-2	X	X
Dimensions:	13" wide x 7.9" high x 23.6" deep (330 x 200 x 600 mm.), Weight: 25 kg	X	X
Power:	110/220/240V, 60/50cs, 180W	X	X
SCSI Interface board (Included):		X	X
Scan Software (Optional):	WIDEimage	X	X

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