

Kodak

Perfect Page Scanning



Why wait for rescans?

Don't sacrifice productivity to physical or software rescans. Insist on production scanning performance that's so close to 100 percent on target, 100 percent of the time, we had to call it "Perfect Page Scanning."

Perfect Page Scanning features exclusive imaging technologies, including Contour Tracing,* full grayscale deskew and Adaptive Threshold Processing. Combine these with the reliability, service and support that come with all KODAK DIGITAL SCIENCE™ Scanners, and the result is Perfect Pages delivered to your host system at full production speeds, up to 320 images per minute (duplex). That means you can get consistent, high-quality black-and-white output plus all the scanning productivity you expect, without compromising throughput rates.

SCAN IT RIGHT THE FIRST TIME AT FULL SPEED WITH KODAK.

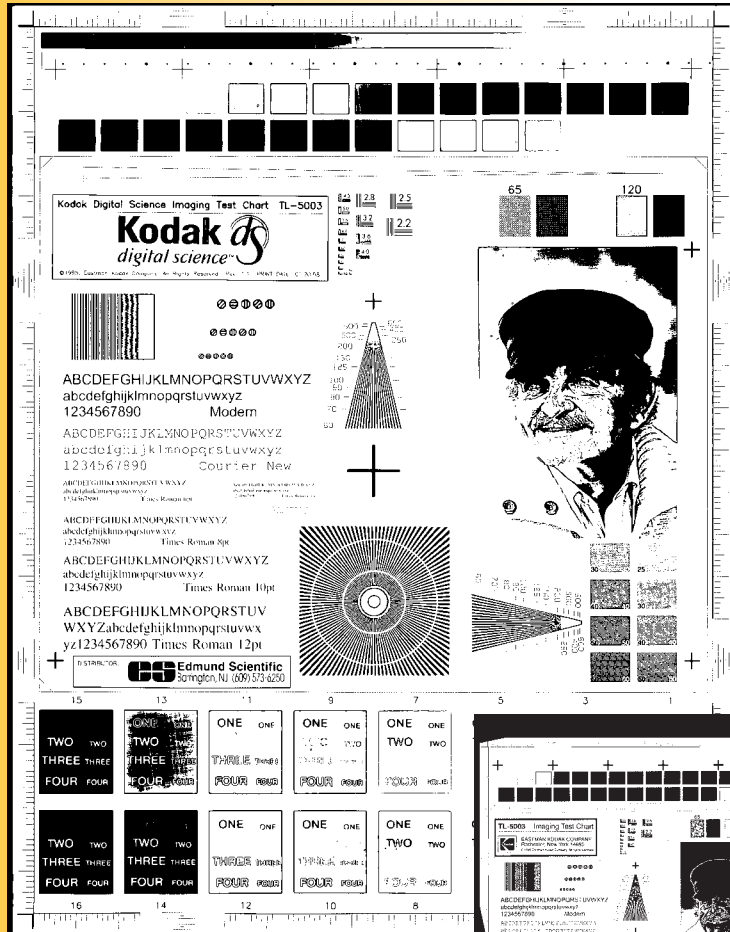
Avoid time-wasting rescans or reprocessing steps. Feed pages in, get perfect images out at full rated speed. Kodak makes scanning as simple and productive as that.

**Patent pending.*

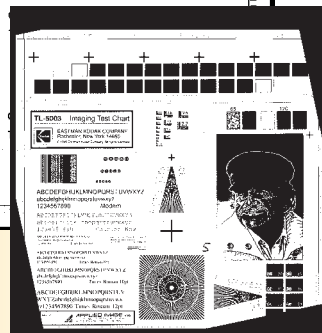
Perfect Page Scanning: optimizing your

PAGE TO PAGE, PIXEL TO PIXEL, YOUR IMAGES LOOK BETTER WITH PERFECT PAGE SCANNING.

Precision optics, exclusive CCD sensor technology, and on-board processing deliver sharp, clear images with smooth edges and fine-line detail maintained to a high degree of accuracy.

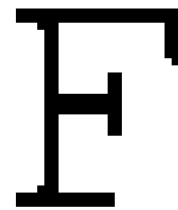


Perfect Page Scanning, with automatic vertical overscan and border reduction.



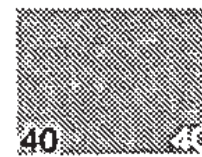
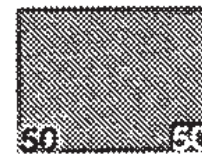
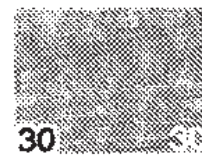
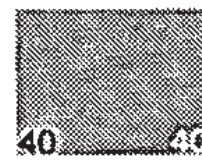
With ordinary scanning, notice the corner clipping and excessive black borders.

PERFECT PAGE SCANNING



With Perfect Page Scanning, you see smoother edges, fewer misplaced pixels, and better defined serifs. (400% magnification)

ORDINARY SCANNING

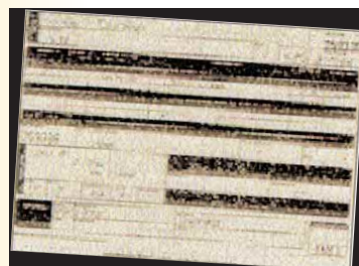


With Perfect Page Scanning, notice how characters don't get lost on a gray background.

GET MORE CLARITY AND DETAIL – AUTOMATICALLY – WITH A PERFECT PAGE KODAK SCANNER.



Original document



Ordinary scanning



Perfect Page Scanning

On-board image processing results in output that captures more of the information contained in the original documents.

image quality without skipping a beat.

Being right the first time means images that are skew-corrected – straight and right-reading. Black borders have been accurately reduced, without clipping corners. Photographs look like photographs. Exposure and contrast have been optimized to bring out details.

Lines and fonts appear with smooth edges. And you'll get higher OCR and ICR read rates downstream. All without operator intervention or post-processing. That's Perfect Page Scanning.

A PERFECT PAGE STARTS WITH OUTSTANDING IMAGE CAPTURE.

One of the reasons Kodak can deliver the Perfect Page is because our capture technology does a better job of “seeing” pages. To begin with, the operator can calibrate the scanner at the start of a shift or job by simply feeding a sheet of white paper. No service call required.

Accurate imaging is assured by precise illumination and Kodak's specially designed lens. This lens is spectrally and spatially optimized to match the illumination and sensor design. So the optical image sent to the sensor is the highest quality possible.

The CCD sensor itself is a work of art. With technologies patented by Kodak, the CCD sensor shares its heritage with

the sensors used in the successful Mars Lander and the Chandra X-ray Space Telescope. This sensor is also optimized for scanning, and delivers outstanding dynamic range. This results in better image quality and less “noise” in the image.

ON-BOARD IMAGE PROCESSING FOR HIGHER QUALITY AND SPEED.

Quality is automatic with Perfect Page Scanning. On-board image processing of 8-bit images is why. An 8-bit image gives the image processing hardware much more data per pixel to work with. Kodak's image processing gives you accurate edge detection, straighter lines, better rendering of fonts and halftones, and more details. And because the processing takes place in real time, it keeps images moving at top speed.

BEFORE A PERFECT PAGE GOES TO YOUR HOST, IT PASSES THROUGH AN EXCLUSIVE SUITE OF IMAGE QUALITY ALGORITHMS.

Ordinary scanners offer no comparison. Look at all the image processing steps inside Perfect Page KODAK Scanners:

Contour Tracing—finds the edges of mixed-size documents, even with folded or clipped corners or with uneven, torn edges. This enables

accurate automatic skew correction, border detection and reduction, and auto cropping. (Not active in fixed cropping mode.)

Bi-linear Interpolation—instead of the process of throwing away pixels and lines, this process interprets the 8-bit data to calculate a new pixel value that more accurately represents the original image. An “O” looks more like an “O” to people and recognition software, because two-dimensional symmetry is more tightly maintained.

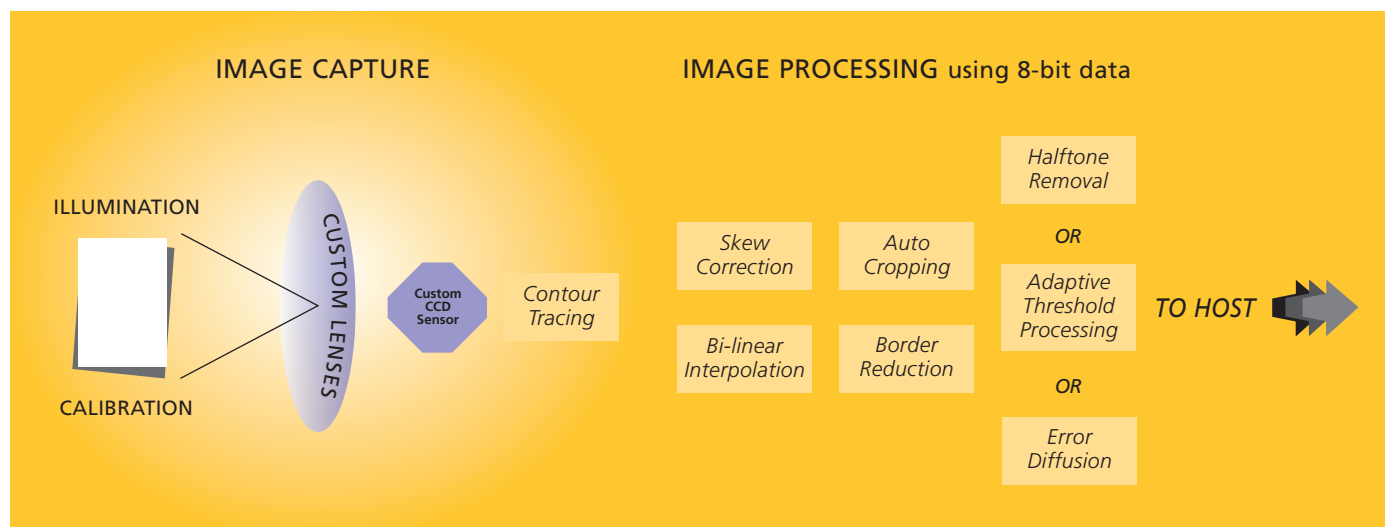
Border Reduction—reduces thick black overscan edges on same-size documents when the scanner is run in fixed cropping mode. Automatic vertical overscan eliminates lead- and trailing-edge clipping on skewed documents (up to 24°). Combined with border reduction you get clearer image detail and better deskew.

Halftone Removal—provides pleasing grayscale-like rendering of images as binary output.

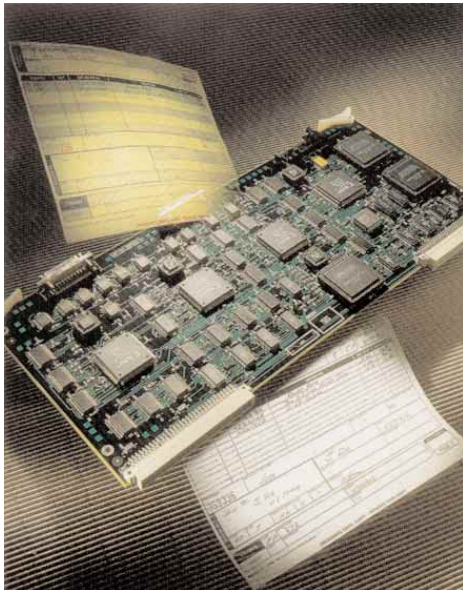
Error Diffusion—converts photographic or continuous tone image content into useable binary output.

Adaptive Threshold Processing—adjusts for variations in contrast and background density.

THE SCIENCE BEHIND THE ART OF THE PERFECT PAGE



Perfect Page Scanning



On-board image processing at full scanning speed enables KODAK Scanners to deliver maximum productivity and outstanding quality, so your host application gets a steady, fast-moving stream of Perfect Pages.

WHEN YOUR IMAGES ARE PERFECT, YOUR PROCESS FLOWS PRODUCTIVELY.

Kodak has been listening to customers on our way to becoming the world's leading brand of production scanners. You can't tolerate any slow-downs for rescans, physical or virtual.

We also know there's more to throughput than a page-per-minute specification. Every operator and software step required for image capture stands between you and your goal.

That's why we design scanners that deliver Perfect Page Scanning. Features and capabilities such as simple operator interfaces and calibration, flexible feeding, misfeed monitoring to keep errors from entering your workflow, forgiving transport systems, careful illumination, precise optics, custom sensors, on-board image processing. These all add up to a steady, reliable flow of high-quality images from KODAK Scanners to your application.

If you're looking for the most productive scanning available, look no further than KODAK Scanners. You'll get robust feeding, unsurpassed imaging, outstanding service and support, user tools, and training. To find out more, contact your authorized reseller of KODAK Document Imaging Products, call 1-800-243-8811, or visit www.kodak.com/go/docimaging.

EASTMAN KODAK COMPANY
Document Imaging
Rochester, NY 14650
1-800-243-8811

KODAK CANADA INC.
Document Imaging
Toronto, Ontario M6M 1V3
1-800-465-6325

KODAK (AUSTRALASIA) PTY. LTD.
Document Imaging
North Ryde NSW 2113
AUSTRALIA
61-2-9870-4222

KODAK (FAR EAST) LIMITED
Document Imaging
North Point, Hong Kong 07021
852-2654-9330

In other areas, contact the Kodak company serving your country or Eastman Kodak Company, Document Imaging, International Markets, Rochester, NY 14650, U.S.A.

For other areas outside the U.S.A., call +1 716-722-9287

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