Intelligent Image Enhancement Technology

Paper documents aren't perfect. They have blemishes, poor image quality, notes, creases, holes and folds. But digital scans need to be crystal-clear and converted into usable data, forcing users to tweak scan settings for different types of pages. No more.

Visioneer's Acuity image enhancement software automatically improves the visual clarity of every scan. Our advanced algorithms and dynamic thresholding technologies intelligently optimize every scan to capture the sharpest images of your documents. And Acuity's proprietary PC Optimization assures full-speed scanning so your scanner doesn't pause to catch up. Acuity includes more than 25 image processing features, from automatic rotation and cropping to color dropout and despeckle, many in hardware via On-Board Acuity. It's integrated with all Visioneer software.

Visioneer® Acuity Software

Page Correction
Scanned pages come in all sizes and orientations. Acuity features 7 algorithms to straighten up incoming pages, from automatic cropping and de-skew to rotation and blank page removal.

Image Adjustments
Acuity can clean up scans using its 10 image adjustment features, including inversion, background management, moiré reduction, even flip back-pages and merge 2 sides into one page.

Threshold Options
Raw scans can lose important detail when backgrounds and edges are present. Acuity retains vital scan details by including 5 Threshold options, including Dynamic Thresholding.

Advanced Color Dropout
Documents with solid color backgrounds can result in a blacked-out scan. Acuity's Advanced Color Recognition removes colored backgrounds, with multiple color selections.

OCR Accuracy
Optical Character Recognition is vital in unlocking the data in a page for delivery to digital workplace platforms. Clear, precise scans are mandatory. Acuity is built for OCR applications.

Visioneer Integration
Acuity is plugged right into Visioneer software. Acuity settings can be accessed and changed within the user interfaces of Visioneer DriverPLUS, OneTouch and Capture SE software.

OnBoard Acuity
To keep Acuity's workload from slowing down at the PC, OnBoard Acuity runs many common algorithms in the scanner hardware. This shared workload keeps things moving fast.
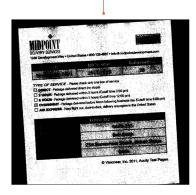
Selectable On-Off
While Acuity is embedded in Visioneer software, it can be turned off If the downstream workflow performs applies image processing or completely unaltered scans are needed.
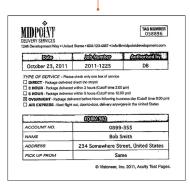
Original	Raw Scan	Acuity Scan

Images above show the original image on the left, a threshold raw scan of that image in the center, and the Acuity enhanced scan on the right. Acuity separated the color on color elements making them readable and straightened the skewed page.

Acuity PC Optimization

Scanners can slow down or pause when image processing in the PC can't keep up with incoming scans, bottlenecking your productivity. An Acuity innovation queries the PC for available memory and number of CPU cores. Using that information, Acuity builds optimal memory buffers and initiates up to 4 concurrent Acuity processes. Even full-speed duplex production scanners run full speed without a hiccup.

1 Acuity checks PC's number of processors and available memory

2 Acuity determines best use of available memory and CPU power

3 Optimal memory, up to four concurrent CPU processes speed scanning

Visioneer Intelligent Software Platform

OneTouch
An easy-to-use scanner workflow application that performs all steps in a complex scanning operation at the touch of a button.

Capture SE
Flexible, powerful batch scanning solution that can split scans into separate files, create indexes, read barcodes and extract data.

DriverPLUS
Provides an impressive array of settings to enable precise scan customization with a simple-to-use interface and helpful tool tips.

Organizer AI
Manages your files with fast search, conversion, file analysis and cleanup, tagging, PDF editor and automated file classification.

visioneer