NovoImage+ software automatically enhances document images to significantly improve the speed and accuracy of optical character recognition, document classification and data extraction applications.

▶ The Challenge: Relieve the capture bottleneck and increase document-processing ROI

Transforming captured content into machine-readable data has become a bottleneck for many organizations. With the centralized mailroom now virtually obsolete, physical documents sent to today's distributed organizations are often digitized at various points of entry using a wide assortment of peripheral devices, or they may arrive after they have already been digitized — often poorly. Critical data may be obscured in scans or faxes of damaged or degraded originals, and the images may be skewed, making it challenging for even the best recognition and extraction applications to yield accurate results.

▶ The Solution: NovoImage+ – the essential tool for improving downstream document processing

In document processing implementations, even a small improvement can make a big difference in reducing the number of errors and manual corrections required. And the effects of image improvement early in the capture process are multiplied as the document progresses through the transaction workflow. For example, using NovoImage+® to improve OCR accuracy by just 5% can reduce the time spent in data verification by over 50%. NovoImage+ document image enhancement software is a truly intelligent solution that…

- **Prepares Images to Deliver Superior Accuracy:** Cleaner images produce cleaner data. NovoImage+ removes background noise, refines character edges and automatically adjusts contrast to improve recognition.

- **Standardizes Quality:** A device-agnostic solution, NovoImage+ can apply the same rigorous standards to images captured by a wide variety of peripherals.

- **Puts the User in Control:** Rather than relying solely on device-specific presets, users can adjust default settings to optimize output for different image sources or document types.

- **Boosts Productivity:** Improved images yielding greater accuracy accelerate workflow by alleviating the need for human intervention to correct errors, plus fewer false positives will result on data to be verified.

- **Reduces File Size:** NovoImage+ can reduce document image file size for more rapid file transfer, more economical storage and more efficient archiving.

- **Automates Pre-Processing:** Automated file and batch processing frees up workers for other tasks.

Correctly orient skewed, rotated or shifted page images.

Detect and eliminate blank pages from documents.

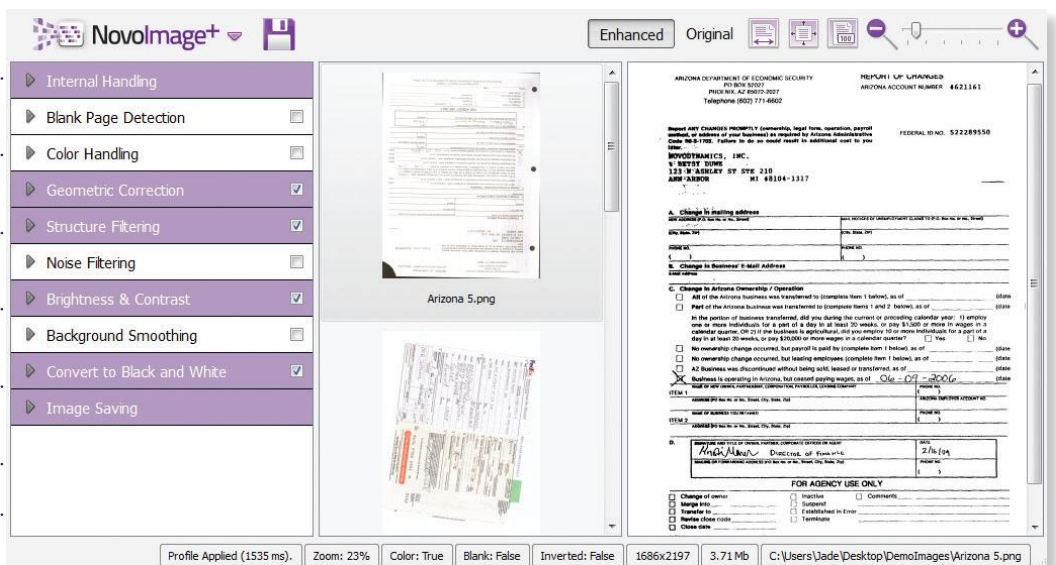Correct color or convert to black and white.

Remove noise, speckles, dust and blemishes.

Repair image faults and regenerate borders.

Enhance and clarify faint or blurred content.

Smooth out backgrounds.

Reduce image file size.

NovoImage+™

Post-capture Image Optimization for the Distributed Enterprise

- **Any Source:** NovoImage+ raises the bar for image quality across the board, maintaining optimal settings no matter the source — desktop scanner, MFP, fax or email attachment. Image enhancement has traditionally been associated with scanner hardware at the time of scan, with settings calibrated to a specific device. This solution may be appropriate where most originals are fed into centralized production scanners but, today, capture often occurs throughout the distributed enterprise and prior to entry into the document ecosystem. Scanner-specific image enhancement is no longer sufficient to meet these needs.

- **Any Digital Image:** NovoImage+ supports all standard image file types.
  - PDF, TIFF, BMP, PNG, JPG
  - Color, bitonal, grayscale

- **File Size Reduction:** NovoImage+ can reduce file size for more rapid file transfer, more economical storage and more efficient archiving.
  - Grayscale to binary conversion
  - Background suppression
  - Blank page detection and elimination

- **Workflow Automation:** With NovoImage+, centralized image processing runs in the background. Watch folders can be set up to apply NovoImage+ processes to documents stored in a specified file directory.

- **Enterprise Licensing:** A single license is available for multiple seats and multiple devices.

Cleaner Images Produce Cleaner Data

- **Feature-Rich Toolset:** Robust technology cleans up digital images, preparing them for more accurate and rapid OCR, ICR and data extraction results. Yellowed or stained paper originals, poor copies, skewed scans and low-quality faxes, can all be dramatically improved through the "magic" of NovoImage+.
  - Auto image orientation
  - Auto deskew
  - Crop and overscan repair
  - Image repair and page border regeneration
  - Despeckle noise suppression
  - Faint content enhancement
  - Background color normalization
  - Enhanced barcode clarity

- **Automatic Detection:** Equipped with the power to recognize image attributes, NovoImage+ can be calibrated to make "intelligent" improvements.
  - Auto resolution adjustment
  - Auto color detection and correction

- **Customizable Profiles:** While NovoImage+ comes with powerful default presets that reduce background noise, remove background colors and enhance character clarity, settings can easily be adjusted to user-defined profiles. Multiple user-defined profiles can be established and saved for automated application to different document types or image sources.

Minimum System Requirements

- Windows® 7 or 8, Windows Server 2008 or 2012
- 512MB RAM
- 1.8GHz processor
- 150MB or greater disk storage

Where to Buy

NovoImage+ software is available directly from NovoDynamics or via its global network of Certified Solutions Partners.

OEM Licensing

Contact us for information.

NovoDynamics, Inc., an In-Q-Tel portfolio company incorporated in 2001, develops intelligent information capture software and provides advanced analytics solutions. Leveraging its pre-eminent image enhancement, pattern recognition and data mining technologies, NovoDynamics® products recognize, extract and index data — even from degraded sources. NovoDynamics solutions analyze large, disparate data sets to address highly complex challenges. With its track record of success in streamlining information on-ramps and adding business intelligence to back-end repositories, NovoDynamics helps organizations leverage their investments in business processes and enterprise resource planning platforms. NovoDynamics products and solutions are used worldwide by commercial industries, governments and academia.

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