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## LEADTOOLS Document Image Processing SDK

To further enhance document imaging technologies such as [OCR](#), [barcode](#) and [forms recognition](#), LEAD Technologies has developed a large collection of advanced document image processing functions. This powerful collection of functions can rid scanned documents of artifacts and imperfections such as hole punches, skewed angles, borders, dust speckles and more. Clean black and white images are essential to any document imaging workflow due to the increased recognition accuracy, optimized processing speed, and higher compression ratios.

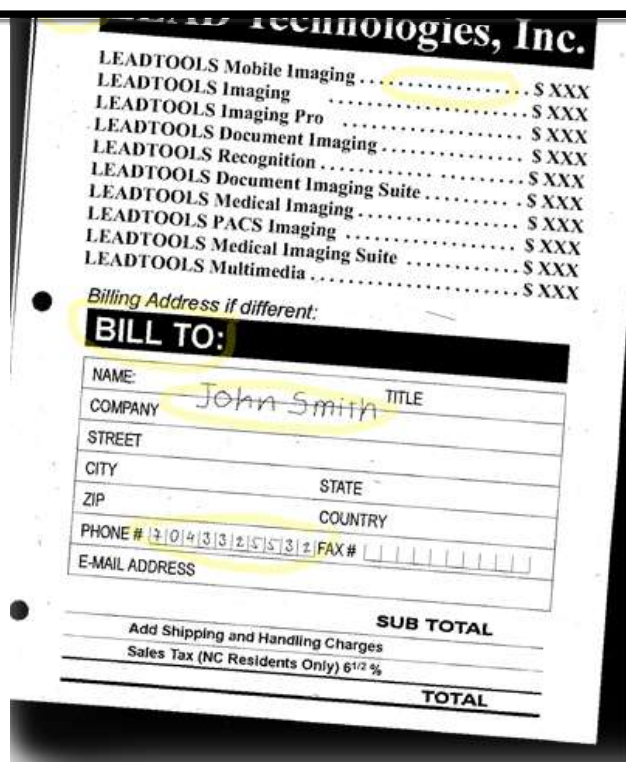


### Overview of LEADTOOLS Image Processing SDK Technology

- Document image processing SDK technology available as C DLL, C++ classes, .NET classes, [WinRT Libraries](#), [Silverlight binaries](#), [Web Services](#) and [WF activities](#)
- Multi-threaded support for image processing in high performance server-based applications hosted in Windows services, Web services and Windows WF hosted applications
- 32 and 64 bit image processing binaries
- Many functions support [processing a region of interest](#)
- Powerful functions for pre-processing document images for OCR, form image recognition and barcode recognition
- Image cleanup and noise reduction functions improve document image readability and compression performance.
- Advanced color detection and conversion functions to help identify optimal color resolution to preserve image quality while reducing image size

*Before*

*After*



**LEAD Technologies, Inc.**

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**Document Cleanup**

- Auto Deskew
- Auto Orient
- Auto Invert
- Auto Trim
- Auto Binarize to convert color images to black and white
- Border Removal
- Check Deskew
- Line Removal
- Rake Removal
- Hole Punch Removal
- Dot Removal
- Inverted Text Detection and Correction
- Despeckle
- High Quality Rotate
- Smooth Document
- Dynamic Binary
- Erosion Filter
- Dilation Filter
- Binary Filter

**Image Segmentation**

- Auto zoning to detect text paragraphs, images and table data including rows and columns
- Automatic Image Segmentation for Compression and Recognition
- Water Shed / Magic Wand
- Flood Fill
- Binary Segmentation
- Dynamic Binary Segmentation
- Select Data
- Color Threshold
- Auto Binary
- Subtract Background

**Other LEADTOOLS SDK Technologies Related to Document Image Processing**

- [Image Processing Overview](#)
- [Common Dialogs](#)

■ [Forms Recognition and Processing](#)

- [Barcode](#)
- [Scanning and Capture](#)

**LEADTOOLS SDK Products that Include Document Image Processing**

Hover over each product for a description. Click for more details.

[LEADTOOLS Document Imaging SDK](#)

[LEADTOOLS Recognition Imaging SDK](#)

[LEADTOOLS Document Imaging Suite SDK](#)

[LEADTOOLS Medical Imaging SDK](#)

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