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AmpLIB MICR OCR SDK

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MICR Line Reader and Verifier for Check Images Software Development Kit

AmpLIB MICR OCR SDK with a comprehensive API that reads MICR Data

- Finds MICR Line on Check Images
- Reads MICR E13B Fonts
- Verifies MICR Data
- Extracts & Parses MICR Data

AmpLIB MICR OCR SDK

The SDK is a High Level Programming System for Windows™ application development. AmpLIB MICR OCR consists of Dynamic Linked Libraries (DLLs) associated import libraries, header files, and example source code

The SDK is compatible with many Windows software development languages

- C, C++, Visual Basic, Delphi Pascal

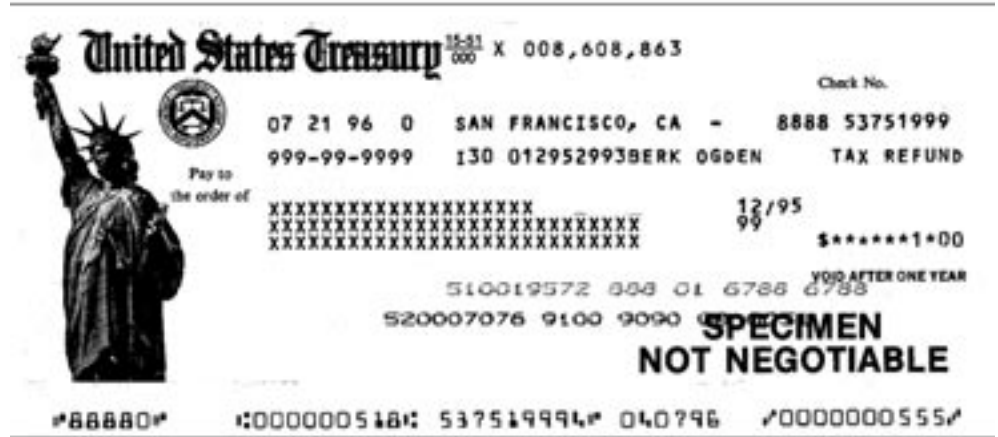
AmpLIB MICR OCR SDK Benefits

- Accurate
- Reliable
- Fast
- Low reject rates
- Rapid Integration
- Economical licensing

AmpLIB was designed for

- Software Application Developers
- System Integrators
- VARs
- Corporate Development Departments

Accurate, Reliable, Fast, Comprehensive MICR OCR Toolkit



MICR OCR Process

- Automatic detection of MICR line
- Control of:
 - Voting algorithm (dual pass) for high read rate
 - Setting the confidence level to maintain a low error rate
 - Reading check images input up-side-down
 - Enforcing (or not) ABA banking rules in the OCR process

Image pre-processing control of:

- Automatic skew correction
- Automatic image rotation
- Skew detection by text or black edge
- Border Cropping
- Automatic image lighten or darken
- Overwrite suppression
- Background pattern suppression
- Line removal

Verification

- Voting algorithm to compare external MICR result and AmpLIB MICR OCR results

Input Format and File Compatibility

- Bitonal, grayscale and color image formats
- BMP, JPEG (JFIF), JBIG, G4 no header
- PCX, DCX, RLC
- TIFF (Uncompressed, LZW, Packbits, G3 Fax, G3-2D, G4, JPEG, Type 2, Multi-image)

Output File Compatibility

- BMP, JPEG (JFIF), PDF (bilevel multi-image)
- TIFF (Uncompressed, G3 Fax, G3-2D, G4)

Output

Each check image generates a data set consisting of:

- ASCII characters for MICR line
- Confidence value per character
- Best character found even if not at an acceptable confidence level

The output controls include:

- Translation table for character set
- Blank suppression

Solutions For All Your Papers





Amplib MICR OCR SDK

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MICR Line Reader and Verifier for Check Images Software Development Kit



Removes Black Edges



Lightens or Darkens



Skew Correction

The Amplib SDK finds, reads, extracts, parses, verifies and saves the MICR data from the check image at rates up to 20 images per second with low reject rates.

Product Description

Amplib MICR OCR SDK delivers accurate and fast Optical Character Recognition (OCR) of MICR line data from check images. Amplib is a complete SDK consisting of everything you need to reliably extract MICR data. The SDK will automatically search a check image for the MICR line and rapidly output the results with accuracy and reliability using its dual pass OCR voting algorithm. Confidence values are generated which can flag questionable images and maintain low error rates. ABA rules can be invoked as an option when considering rejecting a character. With Amplib, you save significant time and gain maximum flexibility to customize solutions because we've already done the complex, low-level programming. Amplib MICR OCR delivers automate image check processing with low reject rates.

MICR Reading Challenges

The toolkit was designed to deal with problems such as handwriting over the MICR line (signature descenders) and background noise and patterns. The MICR line can be printed by up to three different printing processes and printers. The check number field will often be printed using an incrementing counter print module. This print is often skewed and offset from the rest of the line. Another printer adds the amount field. Its pitch, skew and baseline are often misaligned. The MICR line is supposed to be free of decoration associated with the check background but many times that is not the case. Amplib MICR OCR addresses all of these issues and deliver reliable data read rates.

Verification

Verification means comparing the results of the Amplib MICR OCR toolkit with another set of data to confirm their accuracy. Typically this is used to verify hardware results or comparisons to bank databases. Most hardware MICR readers do not generate the location information for the characters. This means that the voting algorithm must perform a syntactic analysis to account for missing, additional and different characters in the two data sets. Many bank databases have incomplete data for the ON-US field. Amplib can repair missing data.

Image Pre-Processing

In addition to MICR OCR, the toolkit has an image preparation function to deal with the most common types of clean up required. These include image skew correction which can be done based on black edges or check content. Images from document scanners are often fed in short edge first. The prep function will rotate these images and then deskew. Since the image may still be up side down, the MICR read function itself can be commanded to read the 180 degree image if the input cannot be read successfully. Images with as little as 100 DPI resolution can be processed with great success.

Economical Licensing

The SDK has a one time fee and comes with runtime licensing for development and testing. Runtime licenses are then placed on the PC running the application. There are no per click charges.

Minimum System Requirements

- Operating system: Windows XP Pro, 2000 Pro, or NT
- CPU: Pentium 4, 2 GHZ, 512MB RAM



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