

**Burroughs**  
Payment Systems

## **SoftCAR+ Diamond Edition Recognition Software**

Reaching Unbelievable Levels of Performance.



## Burroughs Payment Systems is Committed to Advancing the Capabilities of Recognition Technology.

Burroughs Courtesy Amount and Legal Amount Recognition Software (SoftCAR+) is a recognition leader in the payment processing industry. Burroughs SoftCAR+ uses both Courtesy Amount Recognition (CAR) and Legal Amount Recognition (LAR) to automatically recognize currency amounts on documents for payment processing.

The CAR engines analyze the numeric amount written in the document's convenience (or courtesy) box. The LAR engines read the scripted amount written in the legal amount field on a document. In addition to CAR/LAR recognition, SoftCAR+ also reads hand or machine print ICR fields such as hand-written account numbers. This wide range of capabilities within SoftCAR+ provides a comprehensive solution for the check processing industry.



### SoftCAR+ Extensive Line of Features.

- Multiple CAR and LAR recognition engines
- Dual image file processing using CCITT and/or a high resolution JPEG full image or a region of interest image
- In-built performance monitor
- US & Australian recognition classifiers (3.2 version)
- Customization tool to set up specific read/search criteria
- Customer read, accuracy and volume reports
- Special branch processing capabilities
- UK recognition classifiers (3.1.80 version)

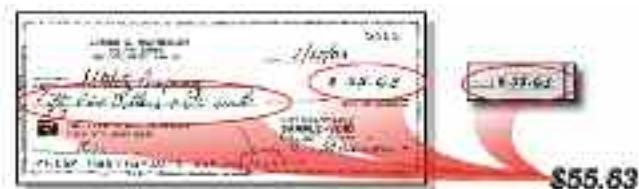
### Out-of-Box Recognition Rates.

SoftCAR+ Diamond Edition achieves higher read rates almost immediately after installation. For example, improved search capabilities on the amount symbol results in less need for customization. This results in a faster implementation and immediate return on investment!

### Courtesy Amount and Legal Amount Recognition.

#### Multiple CAR/LAR Recognition Technologies

SoftCAR+ performs CAR/LAR with multiple recognition engines and technologies and intelligently combines these results. The different reads performed all have unique strengths; the combination of these results yields superior read rates.



#### Dual Image Recognition

SoftCAR+ supports recognition of both CCITT and a high-resolution JPEG full image or a JPEG region of interest (snippet). The high-resolution JPEG image is a 200-240 dpi 256 gray scale image that is customer defined to read the courtesy amount of a check or payment document.

### SoftCAR+ Benefits.

SoftCAR+ Diamond Edition Recognition software licensing is extremely flexible supporting several implementation scenarios such as Enterprise, Branch, Merchant and Enterprise Merchant.

- Enterprise and Enterprise Merchant licenses
  - Purchased for the total annual volume of the enterprise and can be installed at any and all locations where recognition is done so long as the total annual volume does not exceed the total annual volume of the license purchased.
  - License volumes are available in various volumes from 700,000 documents per year (dpy) to 500 million dpy.
  - Enterprise is intended for financial institutions and Enterprise Merchant is for the merchants in a financial institution's network.
- Branch and Merchant licenses
  - Purchased on a per seat basis and available in 1 or 2 million document per year licenses.
  - Branch license is intended for financial institutions.
  - Merchant license is intended for merchants in a financial institution's network.

### Intelligent Character Recognition (ICR).

SoftCAR+ product performs amount and character recognition. CAR/LAR is one example of character recognition.



**SoftCAR+ Diamond Edition Delivers Read Rates in the 90+ % Range and Accuracy Rates up to 99.75 %!**

## Customization Tool.

The SoftCAR+ Customization Tool provides a user friendly means to set-up and define recognition characteristics for non-personal or business check items. By specifying unique characteristics, SoftCAR+ is able to increase recognition rates while decreasing mis-read rates.

### Customization Tool Features:

- Pre-defined customization templates
- Advanced image pre-processing settings
- Advanced multi-form recognition definitions
- Integration with SoftCAR+ for test environments
- User-friendly Microsoft Windows XP GUI

## SoftCAR+ Technical Features.

### User Reports

Provide a web-based interface to generate system reports of various recognition and throughput performance statistics. User Reports can be based on a particular time period, batch of work or document type and can be generated daily or weekly in summary or detail formats. There are six types of reports

- Read rate and accuracy rate
- Volume
- Reject report
- Multi-field report
- Error report
- Throughput

## SoftCAR+ Diamond Edition has a Proven Track Record of Stable and Robust Performance.

### Application Programming Interface (API)

SoftCAR+ is a Windows application based on a COMS application programmer's interface. SoftCAR+ provides an easy-to-integrate OCX object for incorporation into payment solutions to provide character, courtesy amount and legal amount recognition. With this simple-to-use OCX interface, SoftCAR+ is passed a CCITT and/or a high resolution JPEG image. The multiple recognitions are performed, results intelligently combined and the read results and confidence values are returned. SoftCAR+ is qualified with Windows 7 (32 and 64 bit) and Windows Server 2008 Standard (32 and 64 bit)

### Architecture

SoftCAR+ is a distributed network system that accepts images for recognition and handles distribution between recognition PCs and engines. With this distributed network system, the overhead of distribution is handled within SoftCAR+ (via the SoftCAR+ Manager). SoftCAR+ can be configured to service single or multiple transports or image sources.

### SoftCAR+ ICR Capabilities.

- Up to 8 fields on a single document
  - 1 primary CAR field with LAR and 7 additional ICR fields
- Hand print numeric or alpha-numeric
- Hand or machine print courtesy amount (with or without LAR)
- Machine print multi-font / Omni-font
- Machine print OCRA and OCRB
- Machine print MICR (E13B and CMC7)
- Change of address detection
- Mark sense detection

### Image Pre-post Processing

SoftCAR+ has incorporated a number of advanced image pre/post processing features. These features include but are not limited to

- Line removal
- Image skew correction
- Broken character repair
- Image rotation
- Noise removal
- Registration correction
- Forced uppercase
- Touching character separation

### Automatic Forms Detection

Situations may arise where similar documents will have several slightly different document formats. With the SoftCAR+ Customization Tool, these documents can be configured to automatically detect which document is being processed, and perform CAR/ICR recognition in pre-determined locations.

### Automatic Document Type Sorting – (SoftCAR+ Systems Sorting Pattern)

SoftCAR+ has the ability to maintain the document type definitions. Non-check items, such as deposit or GL tickets, may require special recognition definitions. SoftCAR+ has the ability to separate those items based upon unique characteristics on the MICR code line.



## SoftCAR+ Recognition Produces Industry-leading Read and Accuracy Rates.

## About Us

Burroughs Payment Systems, Inc. offers its customers access to world class service, industry-leading technology, and overall support for a portfolio of payment related needs.

The Burroughs headquarters, located in Plymouth, Michigan is home to research and development, manufacturing, sales and support organizations for all product lines and services. These organizations are collectively responsible for both repeatable and custom solutions like the industry-leading SmartSource® check and document scanners and SmartCash™ cash automation solutions. Enterprise servers, device performance management software, a wide range of printer products, and a variety of financial supplies combined with implementation and maintenance services complete the Burroughs portfolio.



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For more information about the entire line of Burroughs Payment Systems Financial Products visit [www.burroughs.com](http://www.burroughs.com) or call 1-800-BURROUGHS (-800-287-7684)

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