

ImagEntry

Key-from-Image Software

Reduce Costs and Improve Accuracy of Data Captured from Document Images

ImagEntry brings professional-level data entry methods to document imaging systems. At an affordable price, *ImagEntry* helps eliminate paper, distribute data entry to remote sites, and reduce the total cost of data capture. Use proven methods to achieve high accuracy and end the "garbage-in/garbage-out" syndrome common to document image systems.

ImagEntry is...

- Proven—based on more than 20 years of data entry software experience
- Open—interfaces with most document image systems and components
- Flexible—handles almost any type of application and small or large format images

With *ImagEntry* you can...

- Customize
- Reduce setup costs
- Key faster
- Improve data accuracy
- Distribute data entry
- Minimize total cost of ownership
- Supplement recognition engines—do in-context reject repair for OCR/ICR/OMR

Use *ImagEntry* to key data from structured documents in a transaction-based environment. Applications include insurance claims, warranty cards, title blocks from blueprints, and document indexing to name just a few.

Since 1980, the *Viking Data Entry (VDE)*® system has been the standard for multi-platform keyboard data entry

from paper documents. *ImagEntry* brings the same features required for superb quality heads-down key-from-paper data entry to key-from-image...and more.

ImagEntry works with all standard image formats, such as TIF and CALS. *ImagEntry* easily interfaces with both existing document image systems and new projects due to its flexible design and open architecture.

UPDATE :MUSICAT RESPONSE 002 00000001#00001 FORM 1: 1

Name: [REDACTED] Date of Purchase: 2/5/02
Address: [REDACTED] Name: GEORGE R. WELL
City: BRIDGEWATER, N.J. Address: 103 N. MAPLE
Age: 42 Sex: Male Occupation: [REDACTED]
Where did you buy MusicCat? RECORD TOWN
How did you hear about us? Store Clerk
What influenced you most to purchase MusicCat? Content
How many software products do you own? 1-5
About how many albums (CDs, tapes, records, etc.) do you currently own?
Do you subscribe to: CompuServe Prodigy American
Which music related publications do you subscribe to or read regularly?
PC MAGAZINE

The image, or a selected portion of the image, is displayed in one section of the window and the data entry fields are in an associated section below or beside the image. Users simply key the data as they see it on the image. The image can be moved, zoomed, or rotated automatically or manually for maximum flexibility.

Reduce application development time with *ImagEntry* tools. An abundance of field edit subroutines make it very easy to customize *ImagEntry* to meet the most demanding applications. You can now take key-from-image to new levels of productivity.

The transaction-oriented architecture allows standard PCs to be the clients, while images and data are stored anywhere on the network on any type of computer—a mainframe, a UNIX box, or another PC.

Any 486 PC or better can be an *ImagEntry* client. You won't need any special hardware or extra fast machines. *ImagEntry* opens new horizons in flexibility and performance.

ImagEntry®



Save Time, Save Money

Viking Data Entry propelled operator productivity to new heights with its unequalled performance and features. Based on the very efficient and effective *VDE* system, Viking *ImagEntry* minimizes hardware and labor costs required to key data from document images.

Open Architecture

ImagEntry is the only image keying system that is truly open. It focuses strictly on issues involving keying data from images for whatever purposes are required by the application. *ImagEntry* sets new standards for performance, efficiency, and functionality.

Designed to be integrated with other components, *ImagEntry* does not contain scanner modules, ICR/OCR/OMR capability, or other components supplied by numerous vendors. Consequently, you can build applications using components that best meet your needs.

Efficient Ergonomics

The operator can zoom and move images with simple, quick strokes of the arrow and function keys. A mouse is unnecessary, so no time is lost moving hands from the keyboard.

Fast Technology

ImagEntry decompresses, moves, and zooms images without delay. The operator never has to wait for images.

Reliable Data

Data accuracy is especially crucial for document indexing and other critical image data. *ImagEntry* contains all the necessary power/precision data entry features required for the most demanding applications including:

- Double key verify
- Database look-ups
- Field validations

Easy to Learn...Easier to Use

- No programming
- No measuring
- No pixel counting

In just a few hours you will learn to develop image data entry applications. In only minutes, end-users become productive with *ImagEntry*. Licensees develop and modify their own jobs without having to depend on Viking to do so.

Open architecture, with many user exit routines, allows clients to customize their image keying to maximize productivity and minimize labor costs.

Data Entry Tool Kit Adds Flexibility

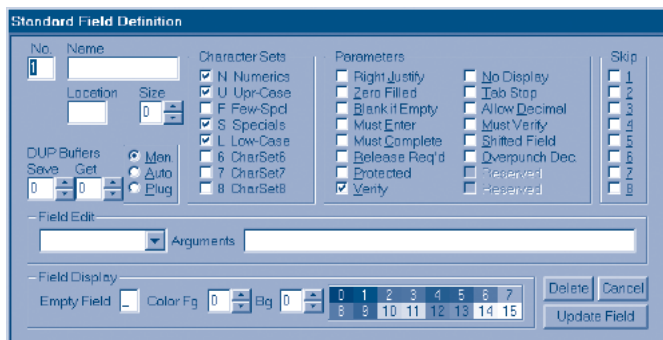
WYSIWYG (What You See Is What You Get) simple language syntax tools reduce application development time. The keying window is defined with a Forms Painter. A sample image displays on the remainder of the screen. The data entry fields can be below or beside the image. The developer moves and zooms the image to associate a specific view of the image with one or more fields. This view is called a snippet. Simply clicking on data entry fields associates them with the snippet.

Later, when a data entry operator moves the cursor to a field, the appropriate snippet automatically displays. Notice in the illustration below how *ImagEntry* enlarges and highlights that area of the image when the operator

The screenshot shows a software window titled 'FULLKEY-CHECKS PAYABLES 0001' with a menu bar (File, Auto, Fill, Print, Help) and a toolbar. The main area displays a check from 'COMMERCIAL BANK & TRUST CO. TULSA, OK 74101' with check number '006159' and date 'Jan 13, 2002'. A data entry form is overlaid at the bottom, containing fields for 'Check Number: 006159', 'Date: (mmddyy Format)', 'Numeric Amount', 'Written Amount Same as Numeric Amount?', and 'Payee Name'. A note at the bottom reads: 'NOTE: For date such as January 13, 2002 enter 011302'.

begins to key the date field. One or more screen “FORMS” are associated with an image, further reducing application development time.

Development tasks are made easy with an intuitive interface and one dialog window that puts everything at your fingertips, as seen below in this Standard Field



Definition dialog.

It takes only a few more minutes to develop an image keying application than it does to create an equivalent paper keying application. Also, converting a *VDE* job into *ImagEntry* is very easy... a claim that other image keying products can't make.

Repair ICR/OCR/OMR Rejects

Add an ICR/OCR/OMR recognition engine to your image application and use *ImagEntry* reject re-entry mode to repair unreadable characters with ease and efficiency. In context, reject re-entry mode moves the cursor from one bad character to the next. A single keystroke fixes a bad character. The operator can insert or delete characters, or simply enter the entire field.

ImagEntry's reject re-entry mode can be based on character confidence levels from ICR engines. Simply set an appropriate threshold level and *ImagEntry* does the rest.

The same screen FORMS can be used for reject re-entry or to simply key all of the data. This simplifies application development and makes it uniform for data entry operators. You can start with keying data and add a recognition engine later. Keying will be the same.

ImagEntry = Power/Precision Data Entry from Images

Some important *ImagEntry* features include:

- Microsoft Windows® 9x, ME, NT, 2000, and XP
- Transaction-oriented
- Flexible, easily customized user exit routines
- Standard image files—intermix TIFF, PCX, CALS, multi-page TIFF and other formats
- High speed data entry from large format images (CALS)
- Interfaces with any DBMS or file system for images and data
- Simple, intuitive application development with the Forms Painter
 - Define data fields, keying window
 - Balance of screen for image window
 - Horizontal/vertical screen split between image and keying window
 - Entire width/height of screen for snippet
 - Use colors to enhance data entry screens
 - Move and zoom images to define snippets
 - Click on field to associate it with displayed snippet
 - Image and data windows automatically adjust to screen size
- Internal work flow from scanner to validated output data
- High-speed image decompression
- Operators can zoom and move image snippets
- Reject re-entry mode to supplement OCR/ICR
- Supports most recognition engines
- Double-key verify mode
- Operator keying statistics
- Reject character statistics

Viking Software Solutions...

Who we are, what we are, and where we're going

Viking Software Solutions has been developing and marketing data entry-related software since 1980. Our mission statement is two-fold:

- Provide power/precision data entry tools for the most demanding applications.
- Make them easy to use so end-users and data entry personnel can set up most of their own jobs.

Our knowledgeable technical staff is truly concerned that our customers find the right solutions to their data entry problems. About 75% of our business comes from word-of-mouth references from our customers. We believe that when we take care of our customers, they will take care of us. It has worked for over 20 years.

Our users testify to their Viking experience—performance superiority, exceptional technical support, and product evolution that continually meets their changing needs. This is evident in the many computer platforms that we support

and by the new technology products that we have developed, such as *ImagEntry* and *VDE+Images™* for keying from document images.

FULLKEY CHECKS PAYABLES 0001 00000001#00001 FORM 1.1

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6804 S. Canton Ave #900
Tulsa, OK 74136-3419

Jan 13, 2002 88-199-1039

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030005555 010991447508

030005512 011302

00061598

Check Number: 006159
Date: 011302 (mddyy Format)
Numeric Amount:
Written Amount Same as Numeric Amount?
Payee Name:

NOTE: For date such as January 13, 2002 enter 011302



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