



# EPI Builder



## Feature List

### OPERATING ENVIRONMENTS

Windows 98SE, NT 4.0, 2000 & XP Pro  
IBM PC compatible, 400 MHz & 128 MB RAM, minimum  
800 X 600 screen resolution  
Designed for multi-user network installation  
Translatable resource files (check for availability)  
Long filename support  
Based on Microsoft Win-32 API  
Microsoft COM, ActiveX & .NET compliant

### DATABASES

Operates without a database connection  
Operates with Microsoft DAO 3.6/Jet 4.0 for Access2000 & XP databases  
Operates with other ODBC 3.0/3.1-compliant databases \*\*  
Point and click configuration of database connection and field mapping  
Accesses data not stored in a database  
Stores images in a database or a file system  
Supports composite primary keys for person and card tables  
Supports user-definable aliases for database tables and fields  
Add an unlimited number of custom database fields  
Pre-configured sample images and card designs

### CONFIGURATION & SET-UP INFORMATION

Installer allows applications to call EPI Builder runtimes as a merge module  
Supports unlimited user-definable image types  
Obtain data directly from a database or through a list of tag names  
Define & distribute configuration setup information in Jet/OBDC databases, XML configuration files & registries

### PRINTING ENVIRONMENTS

Supports any Windows-compatible printer  
Prints both sides of a layout (duplex printing)  
Prints multiple layouts per sheet  
Supports CMYK process color model  
Supports printers that merge CMY and K pages at print time  
Industry standard and custom page sizes  
Landscape and portrait printing

### HELP AND DOCUMENTATION

Online help for all SDK components with sample code  
Context-sensitive online help

### WEB ENABLING

Local printing and previewing from an HTML page  
Upload and download images and layouts through HTTP protocol

### IMAGE CAPTURE SUPPORT

Direct camera drivers for Canon & Olympus cameras  
Face finding feature automatically locates a face within an image then centers, crops and stores it  
Supports capturing from file, AVI, TWAIN & WinTab  
Point and click configuration of image capture devices  
Easy to expand through plug-in interfaces †  
Plug-in functionality according to plug-in driver capabilities  
Modal, modeless & asynchronous capture  
Capture biometric features  
Return multiple images and biometric features  
Control capture device through an application

### IMAGE SUPPORT

Print images with watermarks, as is  
Auto size static images to match size of object to physical size of image in header file  
Supports most industry standard image file formats  
Correct color and crop during image acquisition  
Adjust-by-example dialogs  
Special effects  
Red-eye removal dialog  
Vignette dialog  
Image enhancement dialog  
Horizontal and vertical image mirroring option

### BIOMETRIC SUPPORT

Easy biometric support through a powerful plug-in interface  
One-to-one matching (Verification)  
One-to-many matching (Identification)  
Compatible with BioAPI Version 1.1 Biometric Identification Record (BIR)  
Specific biometric plug-ins commercially available †  
Identix® Facial Recognition\*  
Agora® Fingerprint\*  
Compatible with IWS™ Biometric Engine

### DOCUMENT DRAWING TOOL

Available as an executable (EPI Designer) or ActiveX components

### CARD PRINTING

Print cards individually  
Batch print cards with user-defined selection and sorting options  
Batch print multiple card formats  
Multiple alignment choices and duplex printing on cut-out sheets  
Header and footer for batch printing on sheets

## CARD PRINTING (continued)

Capable of returning encoded data to the application  
Capable of returning encoded data to the print manager  
Batches can be output as a single document to avoid network printer interruptions  
Create AAMVA-standard driver licenses  
Generic magstripe setup utility for non-standard internal card encoders  
Point and click configuration of card printers and internal encoders  
Magnetic stripes can be encoded at print time, in batch mode or single mode  
Proximity cards can be read at print time, in batch mode or single mode †  
Smart chips can be encoded at print time, in batch mode or single mode †  
Magnetic stripes can be encoded on external devices before or after printing

## GENERAL DESIGN FEATURES

Multiple design windows can be open at once to edit multiple layouts  
Easily copy, cut and paste elements between multiple design windows  
Add machine-readable barcodes to ICAO 9309 compliant passports, emergency passports, visas and TD1/TD2 travel documents  
Apply buttons added to layout properties, various object properties and page setup dialogs  
Zoom in and out buttons on toolbar  
Units in centimeters or inches  
Duplex card designs with different page orientations  
Duplex printing with user-definable printing modes  
Print fronts and backs on same page  
Print fronts and backs on separate pages with different sequencing  
User-definable header and footer for sheet printing  
Assign dynamic text fields  
Rotate design objects in 90 degree increments

## CARD BACKGROUND FEATURES

Select background color from standard and custom palettes  
Import all popular Windows image file formats  
Import images using original compression  
Crop images during import to best fit page dimension  
Fade images

## DRAWING OBJECTS

Save custom colors and color lists in the layout file  
Specify width and height of objects as well as the left, right, top and bottom positions  
Shows object outline  
Vertical text option  
Configure image setup directly from design application  
Draw lines, rectangles, round rectangles & ellipses  
Definable grid size configuration and snap to grid option  
Create static text objects including headlines, labels and other non-changeable text items  
Create dynamic text objects including database fields and expressions  
Create dynamic text and image objects with user-definable tag labels  
Assign date and time formats to dynamic fields  
Make objects same height and width  
Align and evenly distribute objects  
Align text baseline

Flip images horizontally and vertically  
Image keylines with automatic aspect ratio  
Zoom in and out  
Create drop shadows  
Apply pre-defined ghost effect to static and dynamic images  
User-definable fade or transparency levels with static and dynamic images  
Remove background pixels from static and dynamic images (close-cropping)  
Add bar codes with user-definable properties and values  
Unlimited user-definable image types  
Add static images with aspect ratio control  
Shift all objects to the black resin (K) plane (printer-dependent)  
Shift all objects to the overlay (O) plane (printer-dependent)

## OBJECT ATTRIBUTES

Quickly select hidden objects placed under other objects  
User-defined object attributes including line weights, fill/text colors, etc.  
Line or user-definable small text borders  
Conditionally print objects based on dynamic data  
Select colors from both standard and custom palettes  
Print monochrome images in colors other than black

## TEXT

Full True Type and ATM font support  
Supports standard type styles including bold, italic, underscore, etc.  
Horizontal and vertical justification

## BAR CODES

Display text above and below bar code  
Supports all popular bar code types  
Supports Symbol® PDF417  
Horizontal (left, center, right) and vertical (top, bottom) justification  
Standard or custom color fills  
Rotate bar codes in 90-degree increments  
Customizable narrow bar width ratio

## ENCODING

Build custom encoder DLLs with easy-to-use Encoder Wizard  
Associate up to 3 encoder plug-ins with one printer  
Supports layout of all three magnetic stripe tracks  
Supports proximity reading/encoding †  
Supports smart chips with contact and contactless encoding †  
Encodes magnetic stripes on driver licenses according to AAMVA standards  
Make data available to the encoder during printing

† Please contact ImageWare Systems for additional information.

\* Will require specific biometry licensing.

\*\* Please refer to ImageWare Systems' Web site at [www.iwsinc.com](http://www.iwsinc.com) for compatibility information.

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