

# EPI Suite v 6.0

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## What's New in Version 6.0

### Improved Image Capture

#### **EPIQuickPix**

EPIQuickPix is a camera driver designed specifically for the needs of the ID marketplace. Combined with a camera, it enables anyone to take great looking pictures quickly and easily, with minimal training. ImageWare has developed separate drivers for high, mid and low-end cameras, allowing Dealers to create and sell pre-packaged, easy-to-use ID software/camera bundles at a variety of price points.

#### **EPIFaceFinder**

Taking a good photo is a difficult task. Without an experienced photographer, photos can be off center and over or under exposed. EPIFaceFinder automatically locates a face within an image, centers, enhances and crops it and then stores the image in EPI Suite, ensuring a perfect photo every time.

#### **High-End Camera Support**

ImageWare's CCD2000 camera, combined with EPIFaceFinder and EPI Suite 6.0 enables users to consistently take great looking pictures without having to be a photography expert. The CCD2000 USB live video camera features a 16X zoom lens, S video output, 1 LUX sensitivity, auto focus and keyboard-controlled camera functions. The EPIQuickPix driver turns the camera's light on or off during image capture, zooms in or out to center a face and adjusts the brightness of an image.

#### **Mid-Range Camera Support**

The C-4000 ZOOM camera is a compact, stylish camera that leverages the latest in Olympus image quality and exposure technologies to provide consistently crisp, high-quality photos. The C-4000 ZOOM is a 4-megapixel CCD camera with a high performance f2.8 3X optical zoom lens. Combined with a smooth 3.3X digital zoom it the C-4000 ZOOM has 10X zoom capability. ImageWare's EPIQuickPix driver turns the camera's flash on or off during image capture, zooms in or out to center a face and adjusts the brightness of a picture.

#### **Low-End Camera**

Low cost Web cams are becoming more powerful, but have a short shelf life. ImageWare is currently evaluating a number of software development kits from top camera manufacturers to determine which camera model to support with its twain interface. ImageWare would like your input on which cameras you would like to see supported in subsequent releases of EPI Suite.

### New Bar Codes

EPI Suite Lite, Classic and Pro now include the Code 128 Mod 43 bar code, which is commonly used in the health care marketplace to track prescriptions, personnel and equipment.

EPI Suite Pro also includes support for adding text and binary expressions to PDF417 and Datastrip's 2D bar codes. 2D bar codes are currently used to store personal and/or biometric information on ID cards, passports and driver licenses. Half of the states in the U.S. utilize 2D bar codes on their driver licenses and governments around the world are adding 2D bar codes to passports, visas and national ID programs for added security.

If a 2D bar code needs to contain text, biometrics and images, ImageWare can build a custom bar code plug-in that works with application-specific data structures and readers. Contact your ImageWare representative for more details on custom applications.



**ImageWare Systems, Inc.**

10883 Thornmint Road • San Diego, CA 92127 • T: 858.673.8600 • F: 858.673.1770 • [www.iwsinc.com](http://www.iwsinc.com)

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## **Improved Importer**

ImageWare has improved the EPI Suite importer by addressing the top three customer issues.

## **New Database Support**

EPI Suite 6.0 is compatible with most current databases on the market including Oracle 9i, MSDE and SQLServer 2000 via an ODBC connection. EPI Suite 6.0 is configured with an Access 2000 database by default and provides a tool to update older versions of Access databases. Users can also use an Access 2002 database format.

## **New Operating System Support**

EPI Suite 6.0 will be tested on the Windows NT, 2000, XP Professional and 98 Standard Edition platforms.

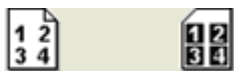
## **More Print Options**

EPI Suite 6.0 will give card production users more printing options, including the ability to print sheets of cards or other documents such as nametags.

Production users can select the following options:



Print the front and back of a card on one page. This is useful when users want to keep a paper copy of dual-sided cards or documents on file without having to print the back and front of a card on two separate pages.



Print the front and back of cards on separate pages. This is useful for printing stickers that must be applied to the front and to the back of proximity cards.



Default sequence option—Print the front and back of cards in the same sequence on both sides of a page. This is useful for printing dual-sided paper badges/name tags on a single sheet.



Align backs with fronts (page flips top to bottom). This is useful for printing dual-sided paper badges/name tags on a single piece of paper or on pre-printed paper that folds top to bottom.

## **Enhanced Layout Design**

EPI Designer, included in EPI Suite 6.0, is powerful software to layout and design rudimentary reports and complex documents such as Visas/Passports that include header/footer information and exclusion areas to prevent ink from being applied over holograms, hidden security features, signature pads or smart chips.

Layouts in EPI Suite 6.0 are stored in an internationally recognized format called Extensible Mark-Up Language (XML) which means designers can edit layout contents to make global changes quickly. As other ID systems begin to adopt XML, there is the potential to exchange EPI Suite layouts with layouts in these systems without having to redraw the layout.

With EPI BUILDER, the card designer is much easier to use with new user interface enhancements that allow layout designers to:

- Quickly access all properties for an object by clicking on the object in the card
- Apply a variety of fading or transparency levels to an image



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- Convert an image to gray scale or print a black and white and color version of an image on the same card
- Use a mesh pattern feature to provide a ghosting effect
- Display the active database in the title bar so designers know they are connected to the proper database for their current layout designs
- Resize all elements to adapt to a new printer without having to manually edit the layout
- Preview image placeholder contents using built-in sample images without having to leave EPIDesigner to check changes to placeholder properties

## **Improved GuardCard – Better, Faster Enrollment**

- EPIDesigner can now be launched directly from GuardCard, enabling enrollment personnel to quickly tweak card designs
- New fields can be added to the enrollment screen without having to go through the field setup menu by simply clicking on GuardCard
- GuardCard displays the active database name in the title bar so users know they are connected to the right database for their card designs
- GuardCard remembers the last five databases used so users can easily toggle between databases
- GuardCard displays a thumbnail image of a selected card design to help users identify the correct layout for their current enrollment application
- The image creation date is displayed below an image field to help users determine if the image needs to be updated and to help distinguish between historical images that may look the same

## **Simplified Magnetic Stripe Encoding**

EPI Suite 6.0 enables users to pick from a list of predefined encoders for popular Fargo, Eltron and ImageWare printers. Advanced users can create new or customize existing encoder configurations through an advanced path in the software.

## **Inline Reading of Pre-encoded Cards Data Saves Valuable Production Time**

ImageWare can build custom encoder plug-ins that read data from pre-encoded HID, Mifare or Magnetic stripe cards before they are printed; insert this data into the EPI Suite 6.0 database; and print the card if the read was successful or eject it if it wasn't.

## **Importer Compatibility Testing Eliminates Surprises**

The importer is now certified to work with file types from popular third-party office and software applications. Please send to [mdoyle@iwsinc.com](mailto:mdoyle@iwsinc.com) and ImageWare will add them to the compatibility-testing schedule. After EPI Suite 6.0 is released, check our product compatibility Web site for the latest test results.

## **Multiple Language Support**

EPI Suite 6.1 is intended to be released in the second half of this year and will support Spanish, German, French and Arabic.

## **Vertical Market Samples**

EPI Suite 6.0 includes preconfigured databases and card designs for schools, national ID programs, driver license programs, clubs and corporations. The software also includes a diverse selection of high-quality photos of people from different cultural backgrounds.



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## **Downloadable Evaluation Software**

The EPI Suite Evaluation CD can be downloaded from the ImageWare Web site ([www.iwsinc.com](http://www.iwsinc.com)) by anyone who completes a registration form. The evaluation software is a full version of EPI Suite Pro with the word “sample” written across the images. It expires within 30 days. Dealers can also host the software on their Web sites or link to the ImageWare Web site. Leads will be referred to dealers.

## **New Software Protection**

Newer computers are more frequently equipped with USB ports. To address this need, EPI Suite 6.0 is protected by a USB key. The hardware key version and a keyless site version will also be available.

## **More Images for New Markets**

EPI Suite Lite now stores three images; Classic stores five and Pro stores 15. This opens it up to a number of applications:

The School Market: EPI Suite can store historical school photos for a student, yet be programmed to display the image of the current year.

The Child Care Market: A child’s record in EPI Suite can hold images for parents, grandparents, babysitters and the like. When the child is picked up, his record can be retrieved by a day care employee who can view the images associated with that record to determine if the person picking up the child is an authorized custodian.

The Public Safety Market: EPI Suite can store tattoos, scars, profiles and images so that guards or police can quickly identify a prisoner or suspect. Furthermore, a high-resolution image of a person’s fingerprints can be stored in EPI Suite and sent to the FBI for verification prior to that person receiving an ID card.

*Please note that the packaging and transmission of the data would require customization services from ImageWare.*

## **New Guard Station Functionality**

EPI Suite 6.0 GuardCard can be used a rudimentary access control product. Placed at an entry point, EPI Suite can be set to listen for card swipes from a serial reader attached to a guard’s computer. When a card holder appears at the guard desk he simply swipes his card and his photo and card status will appear on the guard’s computer screen for verification.

## **Custom Services**

EPI Suite 6.0 functionality can be extended to meet specific project specifications. The following services are now available to meet your specific project needs:

### **Custom Capture Plug-In**

Custom capture plug-ins can be written to bypass traditional TWAIN or Video for Windows interfaces and talk directly to device-specific drivers. COM and Active X plug-ins can be created to accommodate modal, live an asynchronous image capture—and can control zoom, pan, focus, brightness, contrast, hue, saturation and flash directly from EPI Suite. ImageWare can also develop plug-ins to watermark, enhance or encrypt images according to specification or create custom EPIQuickPix TWAIN drivers for any camera with an SDK, enabling dealers to offer unique product bundles to differentiate their offerings in the marketplace.



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## **Custom Biometric Plug-ins**

ImageWare can develop custom applications to acquire and store biometric minutia in the EPI Suite database and encode it on a smart chip or barcode for portable verification at other locations.

## **Bar Code Plug-Ins**

EPI Suite can support other bar codes with specific checksums, formats or other unique properties. ImageWare can also customize 2D barcode encoding software to store and retrieve biometric, image and textual information.

## **3<sup>rd</sup> Party Integration**

ImageWare can develop synchronization applications to extract information from human resource, student information, or other third party databases and add this data to the EPI Suite database. ImageWare can also build applications to automatically activate cards in a cash payment or access control system to reduce duplicate data entry and enhance security.

## **Encoder Plug-ins**

ImageWare can extend the print capacity of EPI Suite by attaching one of its three encoder plug-ins, which can be combined to provide an all-in-one printing solution. The Proximity Encoder controls the reading (encoding) of proximity information (like HID); the Smartchip Encoder manages contact and contactless encoding; and the Magnetic Stripe Encoder manages data to be placed on magnetic stripes. Custom encoder plug-ins can also be developed to meet the requirements of virtually any encoding project.

## **Remote Enrollment Application**

Getting enrollment information from a satellite office to a central production facility can add as much as \$20 per card in overhead to process the paperwork and pay couriers. ImageWare can create a custom Web front-end to captures photos and enrollment data and send this information to a central or regional EPI Suite production facility.

## **Background Checking**

ImageWare can build custom applications that work with EPI Suite to conduct an online check on employees before they are issued ID cards.



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## Feature Summary

Proposed Feature Description	Pro	Classic	Lite
Number of images	15	5	3
EPIQuickPix Twain Driver	Yes	Yes	Yes
EPIFaceFinder	Yes	Yes	Yes
USB Key	Yes	Yes	Yes
Parallel Key	Yes	Yes	Yes
Code 128 Mod 43	Yes	Yes	Yes
PDF417 (binary)	Yes	No	No
PDI 417 (text)	Yes	No	No
Datastrip (text and binary)	Yes	No	No
Importer Enhancements	Yes	Yes	Yes
Oracle 9i (via ODBC)	Yes	Yes	No
SQLServer 2000 (via ODBC)	Yes	Yes	No
MSDE (via ODBC)	Yes	Yes	No
Access 2000 (via JET and ODBC)	Yes	Yes	Yes
Access 2002 (via JET and ODBC)	Yes	Yes	Yes
Duplex Printing	Yes	Yes	Yes
Basic report design with EPIDesigner	Yes	Yes	Yes
Exclusion Areas	Yes	Yes	Yes
New layout designer (EPIDesigner)	Yes	Yes	Yes
New Image Fading/Transparency	Yes	Yes	No
Grey Scale Images	Yes	Yes	No
Display DB Name in title bar	Yes	Yes	Yes
Auto-resize layout objects when printer changes	Yes	Yes	Yes
Old Ghosting and Image mesh	Yes	Yes	No
Launch EPIDesigner from GuardCard	Yes	Yes	Yes
Add fields in GuardCard via pop-up menu	Yes	Yes	Yes
Remember last 5 DBs in GuardCard	Yes	Yes	No
Thumbnail layout design display	Yes	Yes	Yes
Image creation date	Yes	Yes	Yes
Streamlined encoder setup	Yes	Yes	Yes
Expressions for read only fields	Yes	Yes	Yes
GuardStation	Yes	No	No
Vertical market samples	Yes	Yes	Yes

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