

Bring the Power of Intelligent Recognition in Your Application

# I.R.I.S. Developers' Toolkits

I.R.I.S. develops an extensive range of toolkits based on its more than 15 year old expertise. All these toolkits are available under different operating systems:

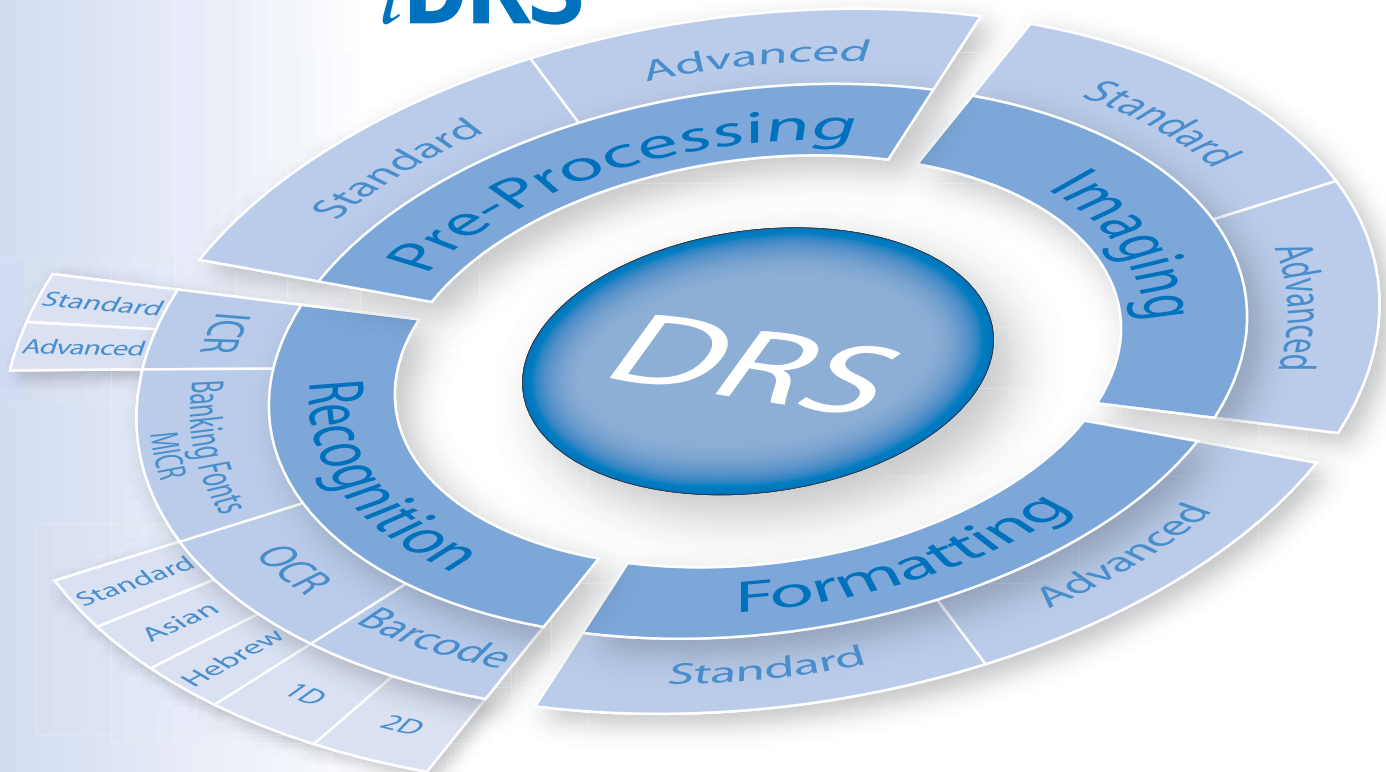
- I.R.I.S. SDKs for Mac OS 9 and Mac OS X
- I.R.I.S. SDKs for Linux
- I.R.I.S. SDKs for Unix
- I.R.I.S. SDKs for Windows: iDRSand RDE



UNIX®



## iDRS



Thanks to **iDRS**, most of the technologies developed by I.R.I.S. are now available in one package. There are 2 different levels of integration:

- Low-level: you can access **iDRS** directly through dynamic link libraries (dll).
- High-level: thanks to the activeX component of **iDRS**, you can finalize your specific application in a very short period of time.

**iDRS** is composed of many different modules, modular to your project requirements.

All these modules are grouped in 4 categories:

<b>Imaging</b>	Standard	
	Advanced	
<b>Pre-Processing</b>	Standard	
	Advanced	
<b>Recognition</b>	OCR	Standard
		Asian
		Hebrew
	ICR	Standard
		Advanced
		Banking Fonts - MICR
Barcode	1D	
	2D	
<b>Formatting</b>	Standard	
	Advanced	

# I.R.I.S. Developers' Toolkits



## Imaging

Before the recognition of image files, you may need to adapt the files to your needs to display.

### Standard

→ This standard module allows you to open the most known input formats including TIFF, JPEG, CCITT G4, etc. The **iDRS** supports image processing, color conversion, compression, display, etc.

### Advanced

→ This advanced module extends the file format of the input images with the following new formats: DjVu and JPEG2000.

## Pre-Processing

Before doing the OCR, the images may need to be optimized for the OCR process. This is done by different pre-processing functions.

### Standard

This standard module allows you to clean-up the images for optimized OCR such as deskew, despeckle, binarize, etc.

### Advanced

This module also offers additional pre-processing options.

## Recognition

The OCR process can be decomposed into 2 phases. First, a page analysis identifies automatically both the orientation and the types of zones. Then, the system calls the right engine for the recognition.

### OCR

OCR is available for 107 languages including all European languages, greek, Cyrillic, etc. Here are some of the options available in this module:

- **Auto-zoning:** automatic detection of text, graphic and table zones.
- **Detailed information:** access to the confidence level, the alternatives and the coordinates of each character.
- **Formatting data:** paragraph attributes, typefaces, font size, typestyle, color, drop capital, etc.
- **Character recognition:** recognition of ligatures ("joined" characters), broken and degraded characters (6 to 72 point size)

### Standard ICR

I.R.I.S. has developed its own Intelligent Character Recognition (ICR) engine for the recognition of all handwritten characters based on the Latin alphabet.

### Advanced ICR

This module allows you to add other ICR engines. By setting up the voting, you increase the results of the recognition.

### Banking Fonts - MICR

The following banking fonts can be recognized: OCR-A, OCR-B, E13B and CMC-7.

### Asian add-on

This module extends the OCR languages with for 4 additional languages: Traditional Chinese, Simplified Chinese, Japanese and Korean.

### Hebrew add-on

This module extends the OCR languages with the Hebrew language.

### Barcode 1D

The barcode module will identify barcodes located anywhere on the page. The barcodes can be used as separators and their content can be used for renaming files for example. We support 24 different 1-dimensional barcodes which covers the most popular ones as code 39, EAN, Code 128, etc.

### Barcode 2D

We also offer the recognition of the PDF 417 which is a 2-dimensional barcodes containing much more information than the 1-dimensional barcodes.

## Formatting

Once the recognition of the document has been done, you might still need to generate an output file. This is done by the formatting module.

### Standard

The following output formats are available in this module: WYSIWYG HTML, PDF, RTF, TXT, UNICODE, UTF-8 and CSV.

### Advanced

This module offers additional compressed output formats.

## Benefits

### → Available on most Platforms

I.R.I.S. has toolkits available on the most popular platforms: Mac OS, Unix, Linux and Windows.

### → Easy integration

Thanks to the ActiveX component of the **iDRS**, an integrator can create a complete application in a few hours

### → Demo applications

Lots of demo applications are available as examples. Each of them shows how the feature can be used and integrated.

### → Extremely fast

The recognition speed of the OCR engine is the fastest technology available on the market.

### → 107 languages

Unlike our competitors, every language we recognize is fully supported, including a full dictionary.

### → Modular application

You only take the modules you need for your specific needs. Don't pay for what you don't need.

## System requirements

### → Development Environments:

- Microsoft Visual Studio.NET (VB.NET, C#, C#.NET, J#, J#.NET)
- Microsoft Visual C++ 6.x and above
- Microsoft Visual Basic 5.0, 6.0
- Borland Delphi 5.0 and above
- Any other development tools supporting COM and ActiveX objects

### → 110 MB hard-disk space

### → PC with Intel® Pentium®/Celeron®/Xeon™, AMD K6/Athlon™/Duron™ or compatible processor.

### → Microsoft Windows® XP, 2000, NT 4.0 with Service Pack 6 or greater or Me/98

### → 32 MB RAM. 64 MB RAM is recommended to process grayscale and color images.

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### I.R.I.S. s.a.

10 rue du Bosquet . B - 1348 Louvain-la-Neuve  
Phone: +32-(0)10-45 13 64  
Fax: +32-(0)10-45 34 43  
info@irislink.com | www.irislink.com

### I.R.I.S. Inc.

Delray Office Plaza - 4731 West Atlantic Avenue - Suite B1 and B2  
Delray Beach, Florida 33445 - U.S.A.  
Phone: +1-(561)-921 0847 - Fax: +1-(561)-921 0854  
sales@irisusa.com | www.irisusa.com