

# Datasheet

## IRIS Powerscan™



**IRIS Powerscan™**



# GENUS

PROVIDING ACCESS TO YOUR INFORMATION

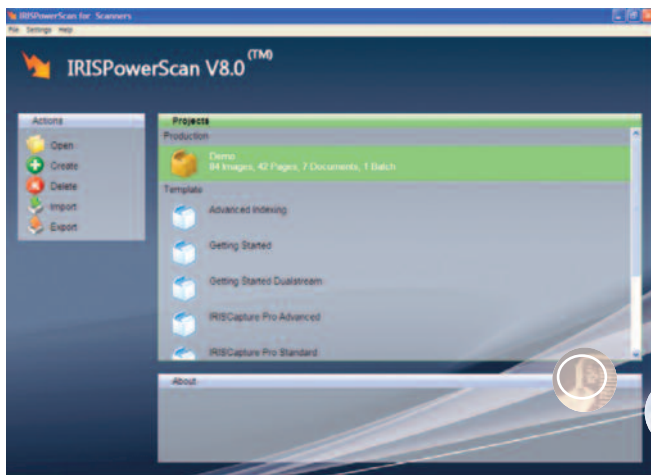
## Introduction

- Do you need to increase your **scanning productivity**?
- Do you need to **convert scanned images** into **indexed and searchable PDFs** or editable text e.g. Microsoft Word?
- Are you looking for a professional scanning, indexing and OCR application with **NO VOLUME LIMITATION** and that **can meet your budget** requirements?
- Do you need a **user-friendly** application with **predefined templates** so that you can start scanning immediately at a **production level**?

If you answered yes to one of these questions, then IRISPowerScan™ is definitely the application you need.

IRISPowerScan™ is a powerful, user-friendly production application with a multi-stream architecture for the scanning and the electronic capture of any kind of documents. This is a complete professional solution to scan, structure, sort, index and convert all documents into fully searchable text files.

IRISPowerScan™ supports most of the popular scanners such as Kodak, Fujitsu, Canon and many more: this is the perfect solution for front-end content, document processing and workflow applications.



IRISPowerScan™

## IRISPowerScan™ Global Benefits

IRISPowerScan™ is an advanced high-speed scanning/indexing solution. Furthermore, thanks to the IRISPdf™ for IRISPowerScan™ included, it is a production OCR/ICR solution to scan, structure, sort, index and convert volumes of scanned documents into highly compressed electronic data. It is the perfect solution to kick-start any document management system or ERP.

- The most productive **scanning, indexing** and **OCR/ICR solution**
- Completely **integrated workflow**: scanning, indexing, quality control, validation and processing
- Very **intuitive** and **easy-to-use interface**
- The easiest way to **index all your documents**
- Creation of **hyper-compressed colour PDF** output files
- **NO scanning volume limitation**



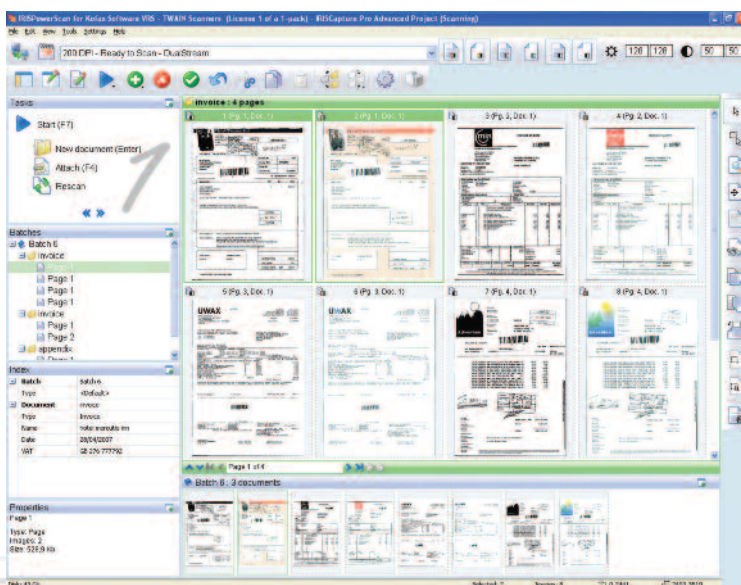
## High Value Proposition

- **High-speed scanning and multi-image display** of the scanned images for fast and easy checking
- **Ready-to-use application:** scan at a production level thanks to the predefined templates
- **Improve the quality of images** with automatic **deskew, despeckle and page orientation detection**
- Ensures the **identification of various document types**
- Advanced document separation features through barcodes, patch codes, OCR/ICR, blank pages, page counter or layout identification
- **Advanced automatic sorting of documents** through barcodes, patch codes, OCR/ICR and layout identification
- **Advanced indexing feature** through barcodes, patch codes and OCR/ICR
- **Supports all brands of scanners:** Kodak, Canon, HP, Avison, Fujitsu, Epson, Bell + Howell and many more thanks to generic Twain driver
- **More than 120 OCR languages supported** including Greek, Russian, Japanese, Chinese, Korean, Hebrew and even Arabic (with add-on modules)
- **Easy workflow set-up**
- **API (Application Programming Interface)** for integrated indexing, processing, event handling and export in most common programming languages such as C++, .Net or Visual Basic
- **Easy project import from Kodak Capture Software 6.X application** (full support of all Batch Output Formats developed for Kodak Capture Software 6.X)

When using the included IRISpdf™ for IRISPowerScan™, you can also benefit from:

- **High-speed conversion of document images** into fully searchable PDF, PDF/A, PDF-iHQC™, Signed PDF, PDF Security Method, RTF, TXT, DOC, WordML, SpreadsheetML, HTML, OpenDocument Text or XML files
- **iHQC™ technology (patent pending):** with this unique proprietary technology, get colour PDF files with fulltext at the price of black & white images (with add-on, cf. iHQC™ Page 6)
- **Creation of a complete XML index**

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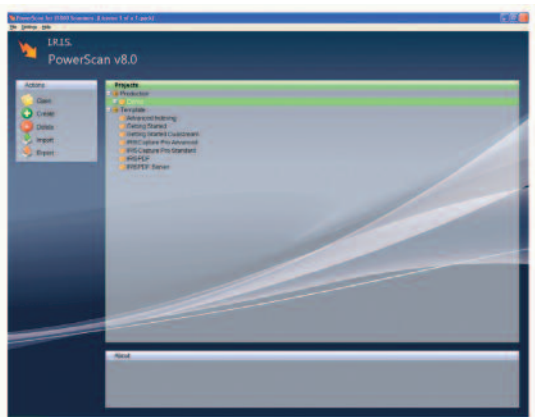
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## IRIS Powerscan™ - Features

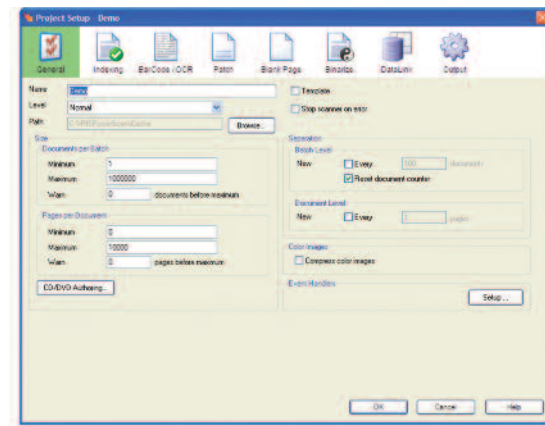
Scanning has never been so easy

### - Predefined project

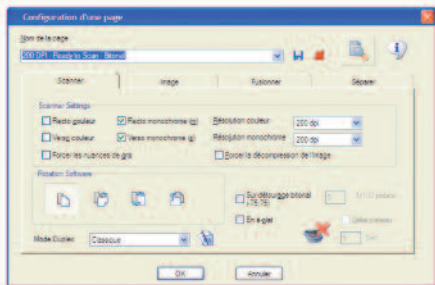
To speed up your workflow, IRIS Powerscan™ is delivered with numerous predefined projects. They include typical settings for common sorting, indexing and processing tasks. With IRIS Powerscan™ you can start scanning in just a few clicks!



Templates



Project set-up



Scanning page set-up

### - Import file

IRIS Powerscan™ can process any kind of image already scanned and archived in your system. Simply import a batch of scanned documents and process them according to your needs.

### - Multi-stream support

IRIS Powerscan™ is able to scan and handle multi-stream images i.e. a batch of documents, front and rear, scanned in colour as well as in greyscale and black & white at the same time.

### - Multi-mode scanning

Append, rescan, attach and insert.

### - Automatic pre-processing of the scanned images

Features such as automatic on-the-fly deskew, cropping/overcropping (eliminates black borders), rotation (supports landscape scanning) and blank page detection and deletion (reduces need to pre-sort) let you scan documents without worries.

### - Image adjustment

Adjust images of a complete batch of documents without having to scan them again. You can do some digital rethresholding, rebinarization, rescanning, etc.

### - Image manipulation

Merge front and rear of documents into a single image. You can also split front and rear of very long documents into smaller images (i.e. each side of an A3 document into two A4 documents).

### - Binarization

Extremely fast binarization of colour images. Scan all documents in colour and create binarized images that can be improved with contrast, brightness, smoothing and despeckle features.

### - Complete support of Kofax VRS™ (VirtualReScan)

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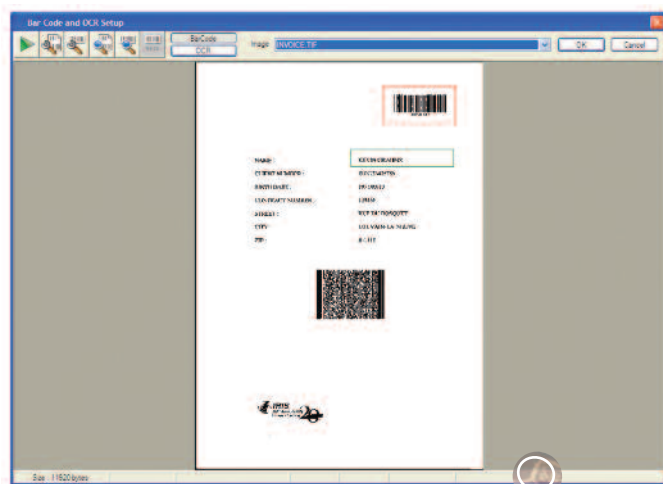
## Sorting & indexing

### - Automatic identification of the document type

Scan documents and define their images as types of documents so that every incoming document with a similar template will be identified and sorted automatically. Documents can also be sorted according to barcode values or OCR/ICR zones.

### - On-line indexing at batch or document level

While scanning you can automatically index files at batch or document level from OCR/ICR zones, ICR zones, barcodes, MICR codes and patch codes.



Barcode set-up

### - Indexing options

You can set special default values, split barcode values over several fields or validate indexing through mask formulas and checking digit exits (invalid values will be highlighted in red).

### - Specific indexation settings for each type of document

With this particular feature, documents can be indexed and processed differently according to their type.

### - On-line separation of documents

Automatic batch and document separation input from barcodes, patch codes, OCR/ICR zone, blank pages, page counts and layout identification.

### - On-line intelligent sorting of documents

Automatic batch and document sorting from barcodes, patch codes, OCR/ICR zone and layout identification.

### - Document renaming

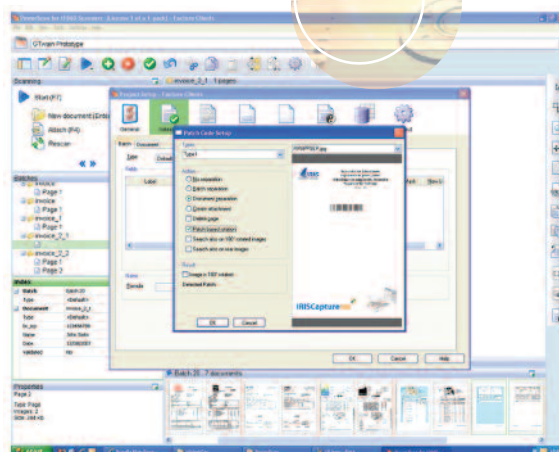
Several options are available for naming the output files: OCR/ICR zones, barcodes or a fixed string with an incremental counter can be used to rename your files.

### - Document numbering

Continuous incrementing of document numbers across batches and incrementing of image numbers across documents.

### - Powerful barcode recognition

Front and rear barcode recognition: IRIS Powerscan™ recognizes more than 17 types of barcodes including the PDF 417 high density barcode and the QR two-dimensional barcode.



Patch code set-up



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## - Banking Fonts OCR

Enjoy powerful banking fonts recognition: OCR-A1 Alphanumeric, OCR-A1 Eurobanking, OCR-A1 Numeric, OCR-B1 Alphanumeric, OCR-B1 Eurobanking, OCR-B1 Numeric, E-13B Optical and CMC7.

## - IRISDesktop™ Search included

IRIS Powerscan™ comes with the IRISDesktop™ Search. This powerful tool easily searches and quickly retrieves any document archived in your computer.

## - Data Link

Any indexing value can be retrieved and/or validated through an ODBC Data Source.

## Quality control & validation

### - Improved indexing

Indexing has been made very fast and easy: you no longer need to key in the data thanks to the drag-and-drop OCR feature, combo lists and last value indexing.

### - Multi-image display

With IRIS Powerscan™ you can quickly and easily verify scanned documents by displaying on your screen more than 8 images at a time. You can also enjoy valuable features such as multi-criteria filtering, dynamic zooming, dynamic filter and a slider to navigate through a batch of documents.

### - Treeview

Navigate easily among batches, documents and pages thanks to the treeview. It also allows you to cut, copy, paste and drag-and-drop any objects (batch, document, page).

### - Editing tools

The user-friendly interface of IRIS Powerscan™ lets you easily rescan, rotate, reorder and delete pages.

### - Post-scanning features

Easily split and merge documents or batches and modify the position of pages across documents or documents across batches with a simple drag-and-drop.

### - Workspaces

Define workspaces by customizing your own interface (panes, toolbars, etc.) according to your specific needs and the user privileges you want to grant.

### - Multi-criteria filtering

Select only white pages.

### - Drag-and-drop OCR, ICR, barcode

Data can be captured from any page of documents using the drag-and-drop OCR tool. Simply select the text on the image and the information will be automatically captured.

### - Security

Easily and quickly define user groups with different working rights for each project and allow access or not to certain features.

### - Data Link

All value indexing fields can be retrieved from an ODBC Data Source so you can very easily pick up the right indexing value through, for example, combo box.

### - Application Programming Interface

IRIS Powerscan™ is an open application thanks to the possibility to use numerous APIs: Batch Output Format API, Extended Batch Output Format API, Indexing API, Event Handler API, etc.

The Indexing API is used to define new formats for indexing fields and new validation/evaluation rules.

The Event Handler API can be used by an external application to interact with the general workflow of IRIS Powerscan™.

IRIS Powerscan™

## Output

### - Application Programming Interface (API)

Any API and those developed for Kodak Capture Software 6.0 that support the sorting of document types are compatible.

### - Image output

Save the processed document in different image file formats: TIFF (also Multi-page TIFF), JPEG, BMP or image PDF (including PDF iHQC™).

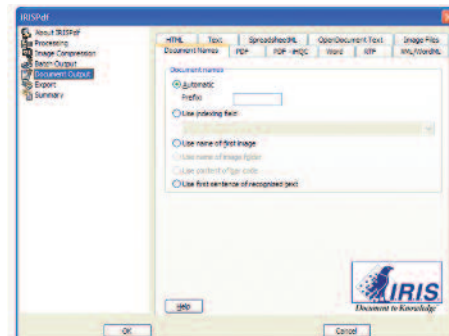


## - Wide range of Batch Output Formats

A large number of Batch Output Formats is available for integration with popular content, document and imaging applications (list permanently updated).

## - IRISPdf™ Batch Output Format

The full standard features of the IRISPdf™ BOF are also included in IRIS Powerscan™.



## - IRISCapture™ Pro

IRIS Powerscan™ can be easily integrated with IRISCapture™ Pro, I.R.I.S.' professional solution to sort, index, encode and export all the data of scanned documents.

With the IRISPdf™ for IRIS Powerscan™ included, enjoy the most productive OCR/ICR technology

## - Recognition engine and full page OCR/ICR

IRIS Powerscan™ and IRISPdf™ use I.R.I.S.' latest recognition engine and formatting technology. The page analysis is done on the colour image, resulting in better zone segmentation. This new engine also recognizes the colour of the text and keeps it in the output file.

## - More than 120 languages supported

All European languages are supported, including Central European, Baltic, Greek and Cyrillic ('Russian') languages.

An Asian Add-on module is available for the recognition of 4 Asian languages: Japanese, Korean, Traditional and Simplified Chinese. Hebrew and Arabic add-on modules are also available.

## - Multilingual recognition

IRISPdf™ recognizes up to 5 languages, even with mixed alphabets, on the same document.

## - Partial recognition of a batch of documents

Choose the pages of a document to be OCR'd and keep the rest of the document as an image file. This will speed up the process and reduce the amount of data stored.

## Image enhancement

### - Deskew and despeckle

The skewing of the text is analyzed on the front of the page but is applied both on the front and the back of the documents, resulting in a much faster processing speed. The despeckle feature cleans up images by removing noise that can appear when scanning documents.

### - Smoothing of colour images

Allow optimal recognition results by reducing sharp transitions in your documents with the "smooth colour image" function.

### - Page orientation detection

Automatic rotation and straightening of the text orientation contained in your documents for optimal OCR accuracy.

## Output

### - Multiple output formats

Generate several output files with different file formats in one single process and from one image file.

### - Wide number of file output formats

The following output formats are available: PDF/A, PDF-iHQC™, Signed PDF, PDF Security Method, RTF, TXT, DOC, WordML, SpreadsheetML, HTML, OpenDocument Text, XML and 4 types of PDF files (Text only, Image only, Text over image and Image over text).

### - Formatting options

Many reformatting parameters are available to respond to the most common reformatting needs. For Word and RTF output files: “retain colour of text”, “retain colour of background”, “keep paper size”, etc.

### - Image compression with JPEG2000

Modify JPEG compression rate and image resolution when generating PDF files (with or without text files) and highly compress all your images with JPEG2000 technology.

### - New output formats available

- PDF/A: Stricter than a regular PDF, this is the ideal PDF format for long-term archiving (NB: PDF/A is not available when an Asian language is selected).
- PDF Security Method: Create protected PDF files that require a password to be displayed, modified, printed, etc.
- OpenDocument Text (\*.odt): OpenDocument Text is a fully-documented open format based on XML. It can be read into OpenOffice and StarOffice.

### - iHQC™ add-on: new hyper-compression technology

iHQC™ (intelligent High Quality Compression) is the new hyper-compression technology from I.R.I.S.

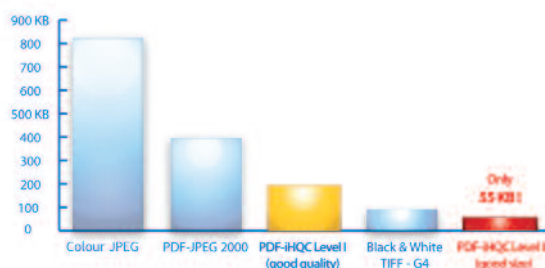
This new add-on will dramatically reduce the size of your colour or Black & White PDF without compromising the colour quality of the images and the legibility of your document. You will get a better quality than in JPEG2000 with a much smaller PDF.

NB: iHQC™ basic level of compression is available unlimited in IRISpdf™ which is part of the IRIS Powerscan™ and you can enjoy, for free, the best level of compressions on 1000 documents/year without the add-on installed.

Images	Colour (Uncompressed)	Colour compressed JPEG		Black & White TIFF Group 4		PDF- iHQC™ Good Size (image+text)		PDF- iHQC™ Good Quality (image+text)	
	Kbytes	Kb	compression	Kb	compression	Kb	compression	Kb	compression
byte_a	19.978	1.445	14	119	168	57	350	86	232
sojourn_c_son	19.158	824	23	91	211	59	325	88	218
eos03noise	33.836	1.024	33	89	380	58	583	100	338
fnac01	7.795	474	16	30	260	25	312	35	223
lion_a	8.196	759	11	35	234	30	273	44	186
park_a	4.303	436	10	30	143	25	172	32	134
scenic_b	13.540	619	22	76	178	43	315	61	222
time_france	19.429	904	21	106	183	57	341	80	243
invoiceTDI	26.092	1.259	21	29	900	52	502	85	307
	126.236	7.744	16	605	209	406	311	611	207

### Example:

This table shows that iHQC™ allows you to generate fully-searchable PDF files (containing both the colour image and the full-text index) that are **more than 200 times smaller** than the original colour image and **smaller than the black & white Tiff Group 4 image** (which doesn't contain the full-text index).





- **Fully searchable PDF Files**

I.R.I.S.' award-winning OCR/ICR engine extracts all text and numbers from your input files with astonishing accuracy. PDF files become completely editable and searchable, allowing quick searches to retrieve and locate the smallest piece of information in an instant.

- **XML output**

There are two types of XML files: compact and detailed. Compact files contain input and output file paths, barcode content (if any) and text content. Detailed files contain, for each character, its coordinates as well as its confidence level.

- **Image output**

Save the processed document in different image file formats: TIFF (also Multi-page TIFF), JPEG, BMP or image PDF (including PDF iHQC™).

## General

- **The most intuitive and easy to use GUI**

IRIS Powerscan™ benefits from a new and very intuitive interface that has been redesigned to give users valuable enhancements such as customizable workspaces and toolbars, an integrated explorer, scanning, indexing & property panes with a dynamic selection of objects (viewers, sliders, etc.)

- **New OCR accuracy report**

OCR accuracy report provides a graphical view of the OCR accuracy results on your documents. With this new tool you can compare the quality of the OCR process done with different settings to define the parameters you need to get the best OCR results on your documents.

- **Index file in XML**

Full text, character positions, confidence level as well as other information about the conversion process are all contained in an XML output, ready for quick integration into a document management system.



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## Recognized languages

American English, British English, Afrikaans, Albanian, Aymara, Balinese, Basque, Bemba, Bikol, Bislama, Brazilian, Breton, Bulgarian, Byelorussian, Catalan, Cebuano, Chamorro, Corsican, Croatian, Czech, Danish, Dutch, Esperanto, Estonian, Faroese, Fijian, Finnish, French, Frisian, Friulian, Galician, Ganda, German, Greek, Greenlandic, Haitian (Creole), Hani, Hiligaynon, Hungarian, Icelandic, Ido, Ilocano, Indonesian, Interlingua, Irish (Gaelic), Italian, Javanese, Kapampangan, Kicongo, Kinyarwanda, Kurdish, Latin, Latvian, Lithuanian, Luxembourgish, Macedonian, Madurese, Malagasy, Malay, Maltese, Manx (Gaelic), Maori, Mayan, Minangkabau, Nahuatl, Norwegian, Numeric, Nyanja, Nynorsk, Occitan, Pidgin English, Polish, Portuguese, Quechua, Rhaeto-Roman, Romanian, Rundi, Russian, Samoan, Sardinian, Scottish (Gaelic), Serbian, Serbian (Latin), Shona, Slovak, Slovenian, Somali, Sotho, Spanish, Sudanese, Swahili, Swedish, Tagalog, Tahitian, Tok Pisin, Tonga, Tswana, Turkish, Ukrainian, Waray, Wolof, Xhosa, Zapotec, Zulu, Bulgarian - English, Byelorussian - English, Greek - English, Macedonian - English, Russian - English, Serbian - English, Ukrainian - English, Hebrew - Simplified Chinese (optional), Traditional Chinese (optional), Japanese (optional), Korean (optional), Arabic and Farsi (optional) + Moldovan, Bosnian (Cyrillic and Latin), Tetum, Swiss-German and Kazak.

## System requirements

- An Intel® Pentium® or equivalent. An Intel® Pentium® IV 2GHz or equivalent is recommended
- 512 MB RAM. 1 GB RAM is recommended
- 400 MB free disk space for the software, plus the space necessary for the image files
- Operating system: Windows® Vista, Windows® XP, Windows® 2000

## Optional Modules

### For IRIS Powerscan™

- **iHQC™ Add-on**  
This add-on will give you access to the best level of compression available in IRISPDF™.
- **Arabic OCR Add-on**  
This add-on is totally unique and enriches IRISPDF™ with the recognition of Arabic and Farsi.
- **Asian OCR Add-on**  
Enriches your software with 4 additional Asian recognition languages: Japanese, Traditional Chinese, Simplified Chinese and Korean.
- **Hebrew OCR Add-on**  
Enriches your software with Hebrew recognition.
- **IRISPDF™ Server**  
Add IRISPDF™ Server to your IRIS Powerscan™ and enjoy server functionalities to keep scanning on your workstation while the OCR process is decentralized and done on a dedicated server.
- **IRISCapture™ Pro for Forms**  
IRISCapture™ Pro for Forms is the perfect solution to process and encode automatically any kind of paper or electronic form.
- **IRISCapture™ Pro for Invoices**  
IRISCapture™ Pro for Invoices is a professional solution to encode and archive automatically all incoming invoices.

IRIS Powerscan™

## GENUS Company Profile

The Genus Group is the trading name of J & J Negus Ltd, which has been trading since 1974 from its Nuneaton headquarters in the UK. From their operations in Ireland, Germany, France, Belgium and Holland the Genus Group has 40 staff servicing over 5000 clients in 60 countries worldwide.

The Genus Group started as a supplier of microfilm consumables to the bureau trade and large end-users. It has since expanded its product range to include document scanners, micrographic equipment, large format scanners, printing, equipment servicing, book scanners, document management software and archiving solutions.

The Genus Group now positions itself as an Archive Solutions Provider, bringing together its expertise in both Micrographic and Imaging technologies to provide the ideal Archiving Solution for an organisation of any size - "The Genus Group provides access to your information".

In today's litigious and legislative business environment, it is essential that organisations address the needs of both their current and archived information. The Genus Group can provide solutions to ensure that your current information is available at the click of mouse, whilst ensuring that the mission critical part of that information is kept in an analogue, long term storage format for over 500 years.



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