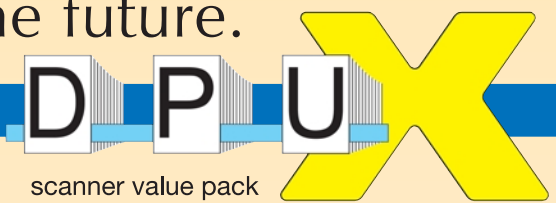




We capture the future.

Janich & Klass



Bates Stamping (Electronic Reception Stamp, Text Annotation)

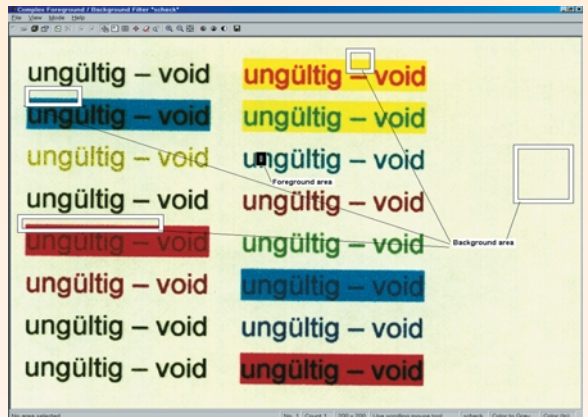
An electronic entry stamp can be "printed" onto each scanned image in the form of a bitmap (BMP) file. This bitmap can be freely scaled and positioned. In addition to a bitmap also text in any size and orientation can be attached. This text may include system variables such as date, time, or diverse counters. The Bates stamp can be driven independently of the imprinter control of the scanner.

AdvancedCOLORDocumentProcessing

DpuScan 4.1 Gold is equipped with the ACDP module for filtering of color images. With it, any colors from the entire color spectrum can be filtered out to generate a gray image.



The colors to be filtered out can be defined in different widths from the spectrum with a simple, optional tool. For example, it is possible to scan a sample image and define only the background colors by drawing several frames. The ACDP module will then automatically calculate the spectrum of colors to be filtered out.



Attention: Many scanner filter options will filter only the three base colors. Therefore, you have to decide which of the three camera colors will be used for scanning. Mixed colors that can be processed by the ACDP typically remain unconsidered.



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The DpuScan Software is Scalable to the Scanner Capacity

DpuScan is available in two different editions:

Unlimited Edition:

There are **no speed limits** and **no monthly scan quantity restrictions**.

The different versions differ only in their functional range:

- DpuScan 4.1 Basic
- DpuScan 4.1 Standard
- DpuScan 4.1 Professional
- DpuScan 4.1 Gold unlimited

The different scope of functions is described in a separate brochure. In addition, you can find an overview at www.dpuscan.com.

DpuScan 4.1 Gold unlimited contains all functions described above, in addition to the module for defining ACDP color filters.

Limited Edition:

The scan speed is adapted to the relative scanner being used. We offer different speed versions, but again there are **no monthly scan quantity restrictions**.

DpuScan 4.1 Gold Limited Edition contains all functions described above, except the module for defining ACDP color filters. This module is available as an option. Nevertheless, ACDP color filters can always be executed.

Order Numbers:

Unlimited Edition:

- 453.103030.001 5 DpuScan Standard for b&w scanners
- 453.103040.001 1 DpuScan Professional for b&w scanners
- 453.885080.001 9 DpuScan Gold unlimited f. color scanners

Limited Edition:

- 453.882003.016 0 DpuScan GL-16 for 16 scans/minute
- 453.882003.032 0 DpuScan GL-32 for 32 scans/minute
- 453.882003.064 8 DpuScan GL-64 for 64 scans/minute
- 453.882003.128 8 DpuScan GL-128 for 128 scans/minute
- 453.882003.256 6 DpuScan GL-256 for 256 scans/minute
- 453.892003.000 0 Option for defining ACDP color filters

Scans are counted per each side of the document. For simplex scanners, it is the number of pages/documents; for duplex scanners, the front side and back side are both counted, and thus the number of pages is halved.



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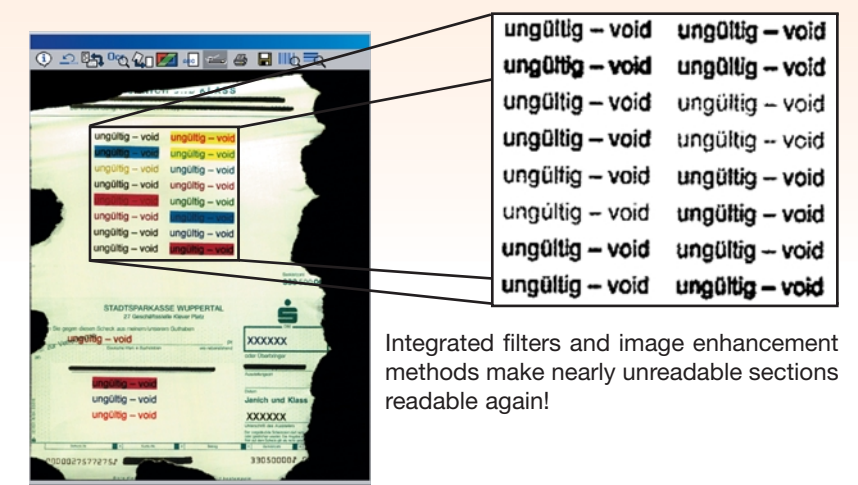


Scanning in Color, Gray, or black & white at the same high speed is just one of the major strengths of DpuScan 4.1.

Besides data entry through user-defined dialogs and the quality control of scanned paper batches, it is possible to perform image enhancement at the same time, and to recognize barcodes, patchcodes, and any text.

Images are automatically saved and sorted through extracted document information.

To match your scanner speed, DpuScan Gold is available in different speed versions.



Automatic skew correction is no problem, even with extremely damaged paper!

With DpuScan Gold, every Color Scanner becomes a Multistream Scanner.

Easy Scanning with Capable Built-In Features – DpuScan 4.1 by Janich & Klass

DpuScan 4.1 is a very powerful scan program. The Basic version can already comfortably deal with complete batches at full scanner speeds. DpuScan offers all required functions for scanner settings, display settings, and the saving of scanned images. Furthermore, barcodes can be recognized, individual images can be modified for enhancement, data can be added manually, and with the integrated OCR module, scanned text can be recognized and saved. It makes no difference whether the documents are color or black & white. By means of the filter technology integrated into the **Gold** Version, it is possible to generate additional black & white images from the color image, where unwanted background colors can be hidden.

With DpuScan Gold, every color scanner becomes a multistream scanner.

The strengths of DpuScan are its speed, reliability, universal application, and user-friendliness – all at an astonishingly favorable price.

• Batch-Oriented Processes

DpuScan 4.1 has a powerful batch manager and is easily adjustable. While System Administrators can set all processing steps and rules for each document type with uncomplicated menu-guided dialogs, a simple control menu can be set for the scanning operator. This will ensure that all batches of a document type will be scanned in the same way.

• Powerful Scanning of Documents

Document capture is more than just scanning paper, and efficient scanning is the starting point for every capture system. DpuScan supports simplex or duplex scanning in **Color** or black & white, either with a powerful video interface or with the SCSI interface models from **Agfa, Avision, BancTec, Bell & Howell, Canon, Fujitsu, InoTec, Kodak, Panasonic, and Ricoh.**

• Barcode Reader, Patchcode Reader, and OCR Module are Included

The results from these three recognition modules can be used for document separation, indexing, or for filename generation. The results are also available for display during the scan process, and for export to DMS environments. Automatic document separation after a pre-defined number of sheets, or by a white separator sheet is also possible.

• Definition of Password-Secured User Profiles is Possible, Granting Different Access Authorizations

You can set the available tool buttons and thus the access authorizations individually for every user.

The screenshot shows the DpuScan 4.1 interface with the following annotations:

- Configure parameters for scanners, filenames, event-dependent process controls, user-defined dialogs, enhanced image post-processing, color filtering, barcode recognition, patchcode recognition, OCR, text annotation (Bates stamping), etc.** (points to the top menu area)
- Task: Configure the process controls, such as scanning documents, processing color filters, searching for barcodes, executing OCR, displaying freely defined dialogs for manual input, stamping the image, reacting to certain events (like changing the directory when a patchcode is found) and much more.** (points to the task configuration area)
- Start the scan job, or continue an interim stored scan job.** (points to the Start button)
- Scan pause** (points to the Pause button)
- Save / store** (points to the Save button)
- Continue scanning** (points to the Continue button)
- Final storage** (points to the storage options)
- Toggle the Infobox (An Infobox contains information to be freely configured.).** (points to the Infobox icon)
- Work off the Event Rules again, in order to, for example, execute document separation after adding patchcode sheets.** (points to the Event Rules icon)
- Toggle the Toolbox (see below)** (points to the Toolbox icon)
- Toggles the batchfile window** (points to the Batchfile icon)
- Add images, or remove them; separate documents, or connect them.** (points to the image management icons)
- Configure User Profiles and tool bars.** (points to the User Profiles icon)
- Drop-down list for different, self-defined scan operations (Tasks)** (points to the Task list)
- Customize the screen layout (number and arrangement of image windows, preview windows, visible tool buttons, etc.).** (points to the layout icons)
- Place red / blue / green marks.** (points to the marking icons)
- Red mark = Deletion tag** (points to a red mark on a thumbnail)
- Display only the images marked in red / blue / green, or all unmarked images.** (points to the filter icons)
- Rotate the image(s) clockwise, in steps of 90 degrees each.** (points to the rotation icons)
- Create a User-Event, such as document separation.** (points to the User-Event icon)
- Preview images with a green mark, for easy location of specific images.** (points to a green mark on a thumbnail)
- Blue mark for important images that still require further processing (rotation, moving to other directories, etc.). The scan job cannot be finalized as long as a blue mark still exists.** (points to a blue mark on a thumbnail)
- These buttons leaf backwards through the scanned images.** (points to the left navigation arrows)
- These buttons leaf backwards through the marked images.** (points to the left navigation arrows for marked images)
- These buttons leaf forward through marked images.** (points to the right navigation arrows for marked images)
- These buttons leaf forward through the scanned images.** (points to the right navigation arrows)
- This black & white image has been extracted from the color image by means of the ACP color filtering and intelligent threshold.** (points to a bitonal image window)
- User-defined information. You may configure any text, counters, directory names, etc. to be displayed here.** (points to the status bar)
- Preview images** (points to the main image area)
- Image windows** (points to the individual image windows)
- Status information** (points to the status bar)

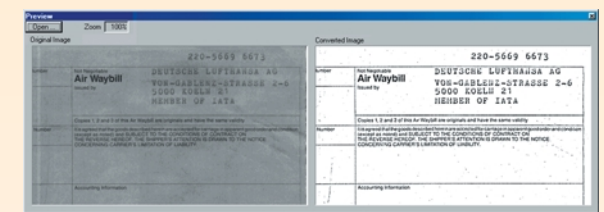
• Universal Upload Functions and Accounting Data for Scan Service Renderers

Every scan program is only as good as its ability to connect to your archive, workflow, or Document Management System. DpuScan 4.1 offers universal setting possibilities via protocol files or modules you can write yourself. Besides image files (TIFF, JPEG, or PDF), barcode files can also be written, and text files can be generated by the OCR in different formats.

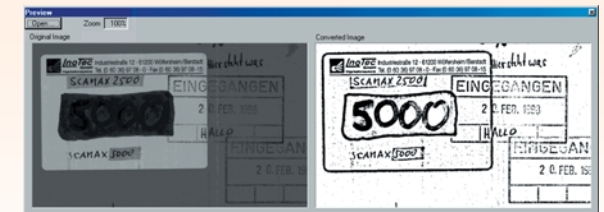
Additionally, DpuScan 4.1 can capture and protocol processing times. The accounting data generated can easily be evaluated with a table calculation program.

• Create Bitonal Black & White Images from the Gray Image

DpuScan is equipped with **Multi Dimensional Intelligent Thresholding (MDIT) functionality.** MDIT performs a three-step analytical process to determine the optimum brightness distribution in an image. This analytical process results in a crisp black & white image, no matter what the original looked like.



Here, **MDIT** works depending on zones and changes its strategy depending on the environment. While other solutions just stop the scan process for difficult images in order to allow manual corrections, **MDIT** never stops the scan process because it can make corrections automatically:



Can you see the big 5000 in the left gray image?

If, on occasion, the results are not optimal, ReScan on Demand (**RSoD**) allows you to later create, from the gray image or even from the color image, an optimal bitonal black & white image on your screen – without the need to ever halt the scan process.

While other programs only offer setting possibilities for the scanner, DpuScan has its own threshold modules. You also have the option of using the functions of your scanner, however.

• Multiple Possibilities for Displaying Images on the Screen

There are several possibilities for displaying scanned images on the monitor – from full-page representation to many “thumbnails.”

• Powerful Event Control

Depending on recognized barcodes, OCR results, counter readings, variables values, file sizes and more, new directories can be generated automatically, variable values can be set, images can be marked or flagged for deletion, new multi-page image files can be generated, or other actions can be enabled. In addition, user-defined functions can be used, such as verifying the sum of digits for an account number.

• Professional Image-Processing on the Bitonal Black & White Image

DpuScan 4.1 is comprised of many post-processing functions for enhancement of image quality, recognition of barcodes, and automatic text recognition (optical character recognition: OCR). Image enhancement offers functions such as despeckle, deskew, deshade, line removal, edge enhancement, and more. Postprocessing jobs can be arranged in a network environment on unmanned stations that automatically post-process every scanned job.

• Universal User-Dialogs for Data Entry

Besides capturing the document itself, additional data must often be entered for the scan job or for the individual images.

Universal user-dialogs for data entry can easily be defined and pulled up individually. Such dialogs can be activated for every image (manual indexing) or only once for the batch (for capturing the batch data). Additionally, the event control can precisely activate dialogs only when they are required (for example, when a barcode is not recognized). Furthermore, a selection dialog can be activated for specification of the image quality and different information windows.

• Multistream Becomes Possible with Every Color Scanner

DpuScan stores, according to your choice, color images, gray images, and/or bitonal images as JPEG (only color or gray), TIF or PDF. **The additional images are created by DpuScan itself!**