



3-Heights™ Image to PDF Converter

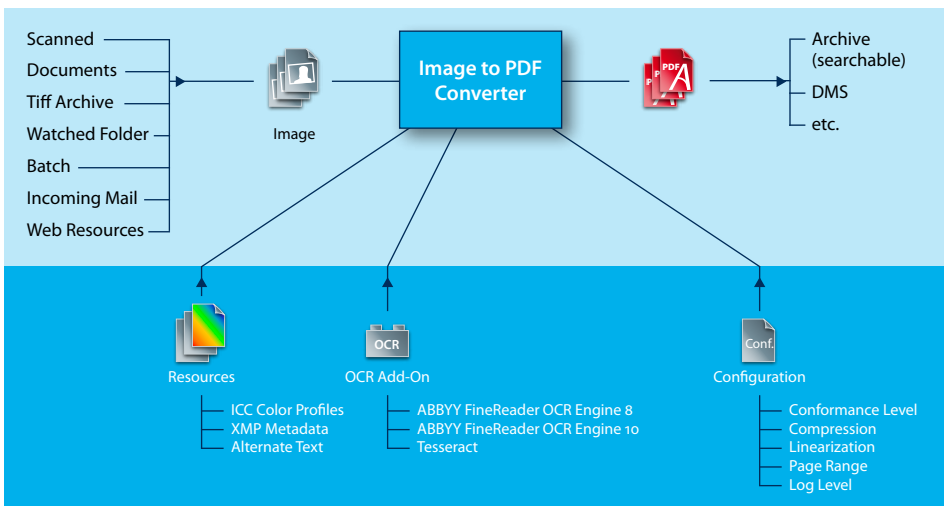
The 3-Heights™ Image to PDF Converter component converts raster images such as TIFF and JPEG to PDF/A and PDF documents. Typical applications include:

- Conversion of scanned documents to PDF/A documents
- Migration of a TIFF archive to PDF/A
- Conversion of image files into searchable PDF/A files
- Conversion of fax files to PDF/A with optional OCR recognition

The Image to PDF Converter is used to convert raster images into a standardized format, for instance for electronic archiving or electronic data exchange. It is also possible to integrate metadata from external sources during the conversion process. An optional OCR add-on is available to create searchable output files.

Product Variants

API	Shell	Service



Properties and Benefits

The 3-Heights™ Image to PDF Converter creates documents that are compliant with PDF and PDF/A. The use of state-of-the-art algorithms automatically reduces the size of the file during processing. The optional OCR add-on enables PDF documents to be searched in full text mode. Consolidating various image formats into a standardized, platform independent format makes it easier to exchange documents, enables long-term archiving and reduces costs as.

Areas of Use

Incoming Mail

Scanned documents can be converted from JPEG and TIFF format into PDF/A, PDF or other image formats. Further standardized processing and secure archiving of incoming documents is thereby guaranteed.

Archive

Conversion of existing TIFF archives or files into a long-term PDF/A archive compliant with ISO requirements and with full text searching options.



Technical Details

Input Formats

- TIFF (Tagged Image File Format)
- JPEG (Joint Photographic Expert Group)
- PNG (Portable Network Graphics)
- GIF (Graphics Interchange Format)
- BMP (Window Bitmap)
- EPS (Encapsulated Post Script)
- JB2 (JBIG2, Joint Bi-level Image Experts Group)
- JP2 (JPEG2000)
- JPX (Extended JPEG2000)
- PBM (Portable Bitmap File Format)
- JIF (GIF Flate)

Output Formats

Image to PDF Converter:

- PDF/A-1a, PDF/A-1b, PDF/A-2a, PDF/A-2b, PDF/A-2u
- PDF 1.0 to 1.7

Image to Image Converter:

- All input formats

Compliance

- Standards: ISO 19005-1 (PDF/A-1), ISO 19005-2 (PDF/A-2), ISO 32000 (PDF 1.7), TIFF V6

Operating Systems

- Windows 2000, XP, Vista, 7
- Windows Server 2003, 2008,
- 2008 R2 – 32 and 64 Bit
- HP-UX – 32 Bit and Itanium
- IBM AIX – 32 and 64 Bit
- Linux (SuSE and Red Hat on Intel)
- Mac OS X
- Sun Solaris

Interfaces

- API: C, Java, .NET, COM

Programming Languages

All program libraries are written in efficient and thread-safe C++. API offers a selection of the following connections to programming languages:

- C#, VB .NET, J# via .NET
- Java via JNI
- MS Visual Basic, Borland Delphi, MS Office products such as Access and C++ via COM
- C and C++ via native C

Product variants

- Shell tool (command line)
- API (programming interface)
- Windows service (system service)

Options

- OCR Add-On

Performance Characteristics

- Supports a broad range of image formats (standard formats, but also legacy formats such as TIFF V 6 and special formats such as IBM MOD:CA, etc.)
- Adoption of metadata from images
- Adoption of color space information from images
- Supports accessibility requirements
- Optional PDF/A compliant output
- Optional integrated OCR function
- High performance
- Processes very large image files
- Platform independent

Functions

- Conversion of single page or multi-page raster images to PDF
- Set output format and conformity level (PDF, PDF/A-1, PDF/A-2)
- Set image compression individually for bi-tonal images, grayscale and color images and indexed images
- Selectable page size and page crop
- Set the position (centering) and scaling
- Set encryption and permission flags
- Embed and select the color profile
- Define alternative texts (so-called tagging) and their language
- Embed XMP metadata
- Set document attributes such as title or author
- Input and output document from file or memory
- Optional character recognition (OCR), choice of Abbyy or Tesseract
- Conversion of raster images to other raster image formats (e.g. BMP to JPEG)
- Linearization for fast web view
- Determine the page range for conversion
- Set the orientation
- Read out image codec information
 - Color spaceComponents per pixel
 - Bits per component
 - Compression
 - Height and width
 - Compression quality
 - Mask, transparency masko Number of pages
 - Palette
 - Samples
 - Resolution in X and Y direction

