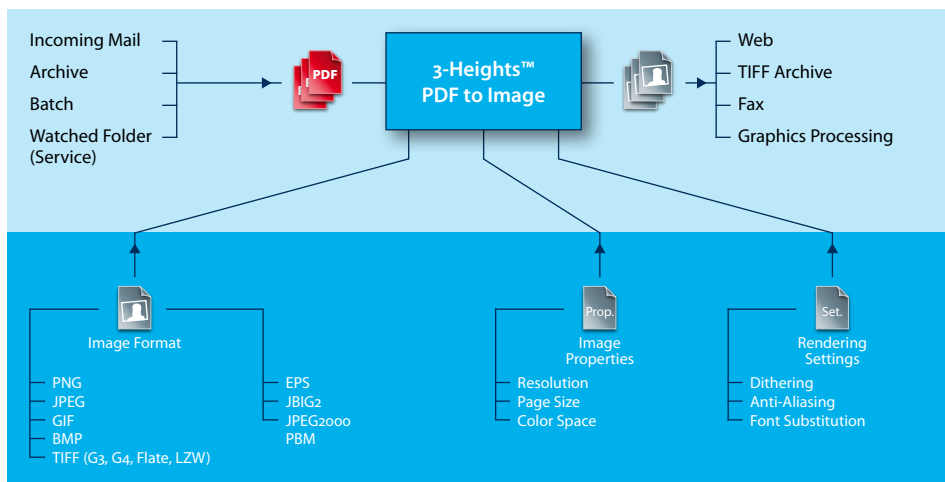


## 3-Heights™ PDF to Image Converter

The 3-Heights™ PDF to Image Converter is a component for converting PDF documents into single page or multi-page raster images such as TIFF or JPEG. Alternatively, it can rasterize PDF documents and save them back as PDFs. Its areas of use include the web, TIFF-based DMS solutions, archive and workflow systems and the protection of PDF documents. The Converter is characterized by its high speed, scalability and high visual fidelity.



### Properties and benefits

- Various areas of use
- Convert PDF documents into rasterized PDF documents to reduce the file size or prevent text extraction
- Convert PDF documents into fax documents
- Supports single and multi-page formats
- View web-based PDF documents without a PDF viewing software

### Areas of Use

#### Incoming Mail

Convert incoming PDF documents into TIFF format for further processing in TIFF-oriented workflow processes in document management systems.

### Document Processing

The PDF to Image Converter creates images for display via the web and in other applications such as an image viewer. The files can be shown in their original size or as high-resolution images or thumbnails. The tool also converts PDF files into rasterized PDF to protect the content.

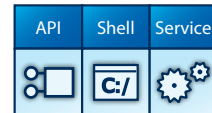
### Archiving

The PDF to Image Converter is suitable for the quick migration of TIFF-based archives.

### Other Areas of Use

- Fax server solutions
- Conversion to TIFF for TIFF-based archive and DMS systems
- Graphics processing

### Product Variants



### Customer Opinion

PDF Tools AG offers not only powerful, stable and reliable products but also competent advice. They took our requirements with regard to improvements and new functions very seriously. The company is an outstanding partner in the field of information technology.

Bill Brice, CEO,  
AlphaTrust Corporation

# Technical Details

## Formats

### Input Formats

- PDF (Portable Document Format)

### Output 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)
- PDF (Portable Document Format)

## Platforms

### Operating Systems

- Windows 2000, XP, Vista, 7
- Windows Server 2003, 2008, 2008 R2 – 32 and 64 Bit

## Interfaces and Languages

### 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 (command line for batch processing)
- API (programming interface)
- Windows service (monitored directories)

## Performance Characteristics

- High visual fidelity
- High performance and scalability
- Ease of integration
- Comprehensive format support

## Functions

- Create single and multi-page images
- Supports all popular raster image formats (TIFF, JPEG, JBIG2, JPEG2000, PNG, GIF, BMP, etc.)
- Create rasterized PDF documents, whereby the text can be rasterized or copied
- Convert individual pages
- Read and write encrypted PDF documents
- Set orientation to portrait or landscape format
- Set image filtering (bi-linear, bi-cubic, super-sampling) to reduce aliasing artifacts and moiré effects
- Select color space (grayscale, RGB, CMYK, indexed)
- Set resolution
- Number of bits per pixel
- Choice of lossy or lossless JPEG2000 and JBIG2 compression
- Optimize the image quality or file size of lossy compression types
- Set the image size in dpi and pixel
- Selection of half-tone methods (none, Floyd Steinberg, half-tone matrix, etc.)
- Optional functions to increase the line thickness of very fine text

