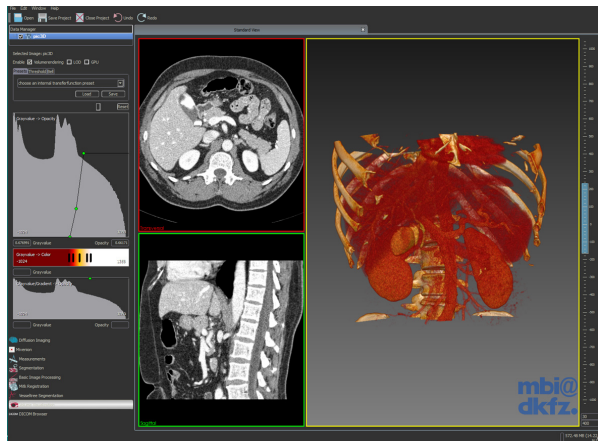


### MITK 3M3 Product Features

- DICOM support, including disc import and local database
- Handling of huge datasets (64-bit version)
- Visualization of 2D, 3D and 3D+t images
- Curved MPR, level windowing
- Advanced GPU volume visualization
- Various measurement tools
- Volumetric analysis
- Data Fusion/Registration
- Vessel analysis
- Overlay (image fusion) of different image datas
- Session export / import
- Is available for Windows, Linux and Mac OS X



### MITK 3M3 Facts

**MITK 3M3** is a versatile software application for medical image analysis. It is developed by the German Cancer Research Center (DKFZ) and MINT Medical on the basis of the well established, free open source software toolkit MITK, which comes with a huge appliance repository, putting over 20 years of experience and research work at your command.

**MITK 3M3** is independent of your system platform, whether you use Windows, Linux, or MacOS. The graphical user interface is flexible and intuitive (e.g. allowing data to be loaded by drag & drop). Switching between tasks and data is fast – allowing you to concentrate on your work.

Are you interested in a consultation for individual advice, a free download of **MITK 3M3** or further information?

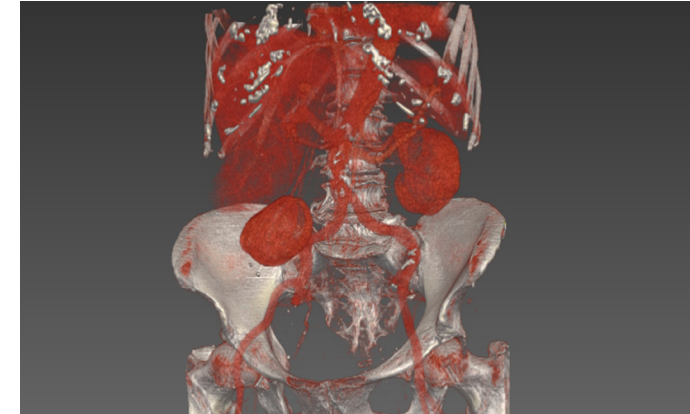
### MITK 3M3 Contact us!



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Contact [info@mint-medical.com](mailto:info@mint-medical.com)

[www.mint-medical.com](http://www.mint-medical.com)



### MITK 3M3 Image Analysis

Your free 3D image analysis solution for the 3rd millennium

## MITK 3M3 Benefits

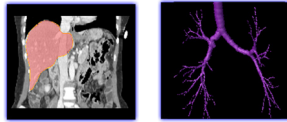
**MITK 3M3** is a free and user-friendly application which ensures effective and efficient work, analysis and visualization of radiological image data.

**MITK 3M3** gives you access to the latest algorithms and methods from research. The cooperation between the German Cancer Research Center (DKFZ) and mint medical allows for a rapid transfer of leading-edge research topics, including diffusion imaging and automated segmentation techniques. **MITK 3M3** will be constantly extended with the addition of new software modules to bring the latest research work to your computer!

### Your benefits:

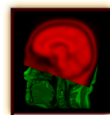
- Quick access all kinds of image data
- Intuitive and user-friendly handling
- Versatile toolbox for all kinds of image analysis
- Works on every standard PC, no software installation required
- Easily extensible with new modules from the web
- Fast generation of high quality visualizations
- Can be downloaded for free

## MITK 3M3 Features



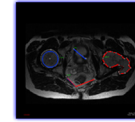
### Segmentation of organs, lesions, and tubular structures

Segmentation of organs and other anatomical structures such as lesions is the basis for advanced image processing and visualization methods. This module allows automatic, semi-automatic, and interactive segmentation and volumetric analysis of anatomical structures. Due to their relatively complex geometrical shape, tubular structures such as blood vessels or bronchial trees are relatively hard to segment with standard slice-based techniques. Therefore, 3M3 provides specific tools for vessel analysis.



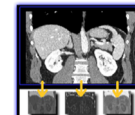
### Registration

Registration is the process of aligning two images in order to maximize the similarity between them. This module provides three methods for image registration in 2D and 3D: Point based registration, rigid registration and deformable registration. The point-based method aligns the images based on a set of corresponding landmarks set by the user and a given transformation type (rigid, affine, similarity) The rigid registration module rigidly registers two images on the basis of a similarity metric. The deformable registration module allows for the non-rigid registration of images by demon-based algorithms.



### Measurement

Computer-assisted diagnosis and surgery planning frequently require simple measurements of objects in the images (such as segmented tumors) or objects created by the user (such as a path planned for needle insertion) to be performed. This module provides a set of easy-to-use tools for (1) drawing and saving basic geometric objects such as lines, paths, angles, circles, rectangles and arbitrary polygons, (2) calculation of descriptive statistics for selected regions of interest and (3) data export to Microsoft Excel or other applications.



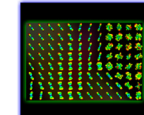
### Basic Image Processing

Many methods in the field of computer-assisted diagnosis, planning, and therapy rely on basic preprocessing of given medical images. This module provides an intuitive interface to fundamental image preprocessing and image enhancement filters including operations for noise suppression and edge detection, morphological operations, and methods for computing image arithmetics. The current version supports 3D and 4D medical images.



### Volume Visualization

Volume rendering is a basic method for visualizing medical images in 3D. It is based on so-called transfer functions that map a grayscale value to a color value and a transparency value in order to allow for 3D visualization of selected anatomical structures. This module provides predefined transfer functions for a selected set of organs as well as intuitive methods for creating or editing them.



### Neuro Image Processing

Q-ball imaging aims at recovering more detailed information about the orientation of fibers from diffusion MRI measurements and, in particular, to resolve the orientations of crossing fibers. This module provides methods for diffusion-weighted image reconstruction, visualization and quantification. Diffusion tensors as well as different q-ball reconstruction schemes are also supported.