



TOMOMAGINE

ARCHIVE

Software for presentation and living Application profile

Preparation of nuclear medicine image files for adequate presentation on Windows PCs. Creation of patient files with import functions from various data sources (DICOM or proprietary formats). Easy archiving to CDROM/DVD with database support. Image transfer to other windows programs. Paper-free transfer of patient files (images and result texts) with CDROM and *TomoMagine Viewer*.

Product Features

- FTP- or DICOM-transfer of nuclear medicine data from imaging systems to the *TOMOMAGINE-PC*
- 3D/MIP viewer/locator of PET/SPET tomograms
- Archiving function with CD/DVD burner module and relational database support with query functions
- Generation of CDROMs with patient files (images and result texts) and *TOMOMAGINE VIEWER*
- Presentation from server or CDROM in a clinical network
- Direct transfer of data into MS-Windows-Programs, export to graphic files (BMP/TIF/GIF/JPEG)
- Print function for windows printers

Advantage

- ✓ Integration of Systems with DICOM export as well of older systems without DICOM
- ✓ Adequate presentation and easy allocation of lesions
- ✓ Can be used as Mini-PACS
- ✓ Paper-free filing and documentation, on every state-of-the-art windows PC
- ✓ Availability of data in demo rooms and at the patient's bed (e.g. Laptop with radio modem)
- ✓ Comfortable creation of publications (MS-Power Point, MS-Word)
- ✓ Low-cost printout

Product Description

TOMOMAGINE is an archiving and presentation program, especially suited for improving acceptance of nuclear medicine studies. Presentation of tomograms is done three-dimensionally and with 3D-effects (MIP).

TOMOMAGINE can be installed on every Windows PC (Win NT/2000/XP).

The image data of a PET/ SPECT study are loaded from the imaging system (Gamma camera or PET-Scanner) either via local network (DICOM, FTP or direct File transfer) or by CD. DICOM services are included for receiving and sending images.

TOMOMAGINE is using the reconstructed transaxial PET/SPECT data for creating coronal and sagittal slices, image series and MIP projections. Planar image series and screenshots can be displayed as well. Various colortables are enabling an individual color adjustment. Image contrast can be changed in a wide range.

All images of a patient can be selected via database queries. For fast access, e.g. presentations, prepared image data are loaded into a patient related report list and are available immediately.

Images of a 3D-projection series can be animated and can be stored as GIF-animation or as BMP-files.

TOMOMAGINE can be used as well as an archiving system (Mini PACS): Built-in CD/DVD burner and database support is included, so that all data can remain online (if a large disk system is provided) or can be backed up and reloaded from CDROM or DVD.

Specifications (V. 4.1)

Hardware requirements:

CPU: \geq 400 MHz or more (recommended: at least 1GHz)

RAM: \geq 256 MB (recommended: 512 MB or more)

Operating system: Windows NT 4.0/2000/XP

(Viewer: Windows 95/98/NT/2000/XP)

Accepted image formats:

DICOM (Modality NM, PT, SC(RGB, Palette), CT, MR, SR), Odyssey (Philips), ICON (Siemens), ECAT PET (Siemens/CTI), Pegasys (Philips), Interfile. Other image formats are work-in-progress and can be adapted if required.

Image transfer support:

DICOM SCP module, DICOM send function

FTP client module

Import/ export of graphic files:

Import: BMP, SUN-Raster (RAS), Mac-Pict (PCT), GIF, JPEG, TIF, Windows clipboard

Export: BMP, JPEG, TIF, GIF, Windows clipboard

Archiving and Database support:

Archiving of large amounts of data with CD/DVD backup;

CD/DVD burner module allows writing patient files or archives with viewer to CD-R, DVD+R or DVD-RAM.

Relational database support, query functions (search for patient, ID, date or study description).

Reference to the author:

TomoMagine has been developed in the Nuclear Medicine department of the University of Mainz, Germany by Dr. O. Nickel.