

MEDCOM GMBH

TELECONSULT 2.6

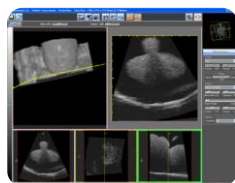
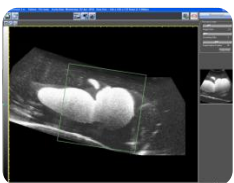
System Overview





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TeleConsult 2.6 is a product coming up to the latest requirements of medical diagnostics.

2-dimensional

TeleConsult 2.6 extends with its innovative program functionality *the display of two-dimensional ultrasound images*, thus facilitating interpretation of diagnostic records.



3-dimensional

TeleConsult 2.6 allows a *three-dimensional presentation* of acquired two-dimensional ultrasound images and a measurement of length and volume in the three-dimensional display of the object.



4-dimensional

TeleConsult 2.6 enables real-time 4D volume acquisition and rendering.



TeleConsult 2.6 is especially applicable in the medical fields of gynaecology and obstetrics as well as internal medicine, urology, cardiology, surgery and orthopedy.

panorama

TeleConsult 2.6 allows a combination of ultrasound images into a larger *VPan image* in order to increase the ultrasound image size.



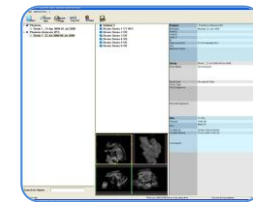
animations

TeleConsult 2.6 additionally realises *video animations* of the three-dimensional object generated and visualised by the program by ultrasound acquisition or selected with an external storage medium.



database

TeleConsult 2.6 is linked to a MS-SQL *database* for the management of patients and studies. There is also the possibility to receive and send DICOM files within a DICOM network.



Software Specification

The *TeleConsult 2.6* software offers the following features:

Ultrasound Acquisition

- 2D loops
- Single Images
- Panorama (Image stitcher)
- 3D Volume (Resampling of 2D Ultrasound sequences)
- Real-time 4D volume

2D viewer

- Display of acquired ultrasound images
- Playback of acquired loops
- Video export (avi format)
- Thumbnail view
- Remove single images from a loop
- Print / Export to image
- Definition of Region of Interest for 3D resampling

Panorama Viewer

- Display of stitched panorama images from a 2D ultrasound sequence
- Image zoom
- Smoothing Filter
- Frame Marker (marks the single images within the panorama)
- Print / Export to image
- Line / Multi-Line measurements

3D/4D Viewer

- Display resampled 3D Volumes
- Display of DICOM 3 images
- Three Section image windows
- 3D/4D window
- Orientation window
- Oblique Cut window: Display of oblique angled cuts / Virtual Sonography
- Rotation of the volume
- Select current slices
- Volume & Surface Rendering
- GUI for rendering settings
- Smoothing / Noise reduction filter
- Zoom
- Print / Export to image
- Definition of contours (2D / 3D)
- Display and playback of 4D volume sequences

Measurements

- Volume measurements
- Length measurements (line / multi line)
- Angle measurements

Annotations

- Add annotations to the section windows
- Types of annotations: Text, lines, pictographs

File IO

- Save acquired images, 3D/4D volumes, configurations, annotations to the TeleConsult database or export to the file system
- Load ultrasound images, 3D/4D volumes, Dicom images, panorama images, configurations, annotations from the TeleConsult database or import them from the file system.

Patient Database

- Manage patients and studies
- Save and load ultrasound images, volumes, DICOM images, configurations, annotations
- Possibility to receive and send DICOM files within a DICOM network