

# InViVo-ScanNT

## Free-hand 3D-Ultrasound Acquisition, Processing and Visualisation

With our integrated solution **InViVo-ScanNT** any conventional 2D ultrasound device can be easily upgraded to a full-scale 3D-ultrasound tomography system offering free hand scanning and the latest available technology for a very reasonable price.

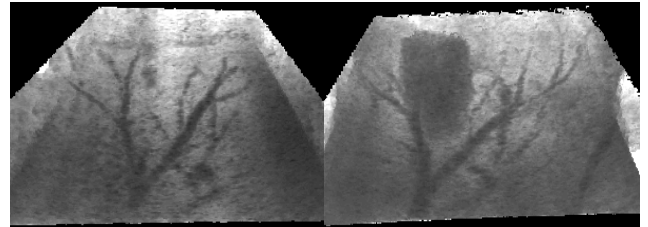
Our **InViVo-ScanNT** free-hand acquisition and 3D visualisation system offers lots of advantages:

- **CE 0535** accreditation
- **Free-hand scanning**  
The transducer can be moved freely and without any restrictions introduced by mechanics
- **High accuracy**  
Measurements of distances, angles, areas and volumes can be performed with high precision
- **All ultrasound scanners**  
All conventional ultrasound devices and transducers can be upgraded without intervention into the device
- **Full 3D capabilities & functions**  
Arbitrary oblique cuts, 3D volume rendering in real-time, measurements of distances, angles and volumes, arbitrary view angles, segmentation tools, video output, interface to MS-Office etc.
- **Integrated database & archive**  
For storing acquired datasets on-line in a database or archiving on external mass-storage (MO-disc)
- **Superior technology**  
The system is the result of several years of R&D in co-operation with the Fraunhofer IGD. It offers unmatched computing performance, fastest volume rendering, superior image quality and several new, proprietary algorithms
- **Inexpensive**  
Software based on standard commercial hardware on PC's under Windows NT 4.0

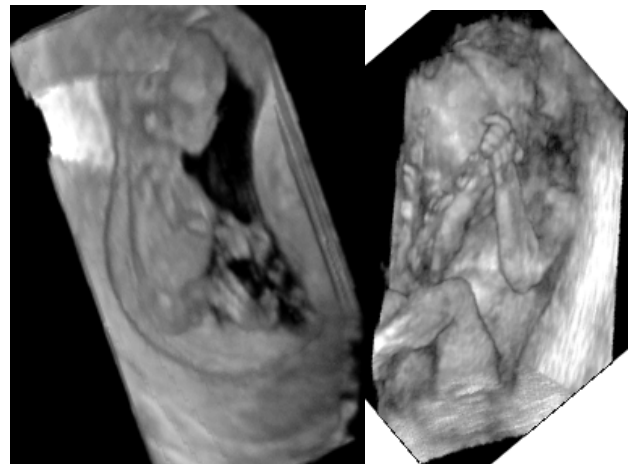


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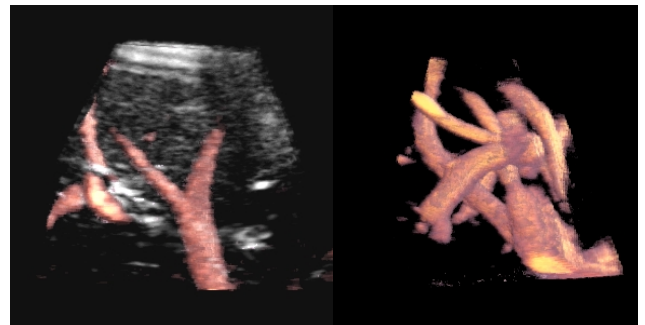
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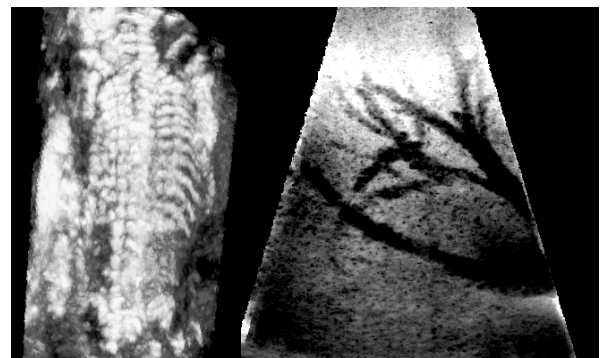
Free-hand acquired liver



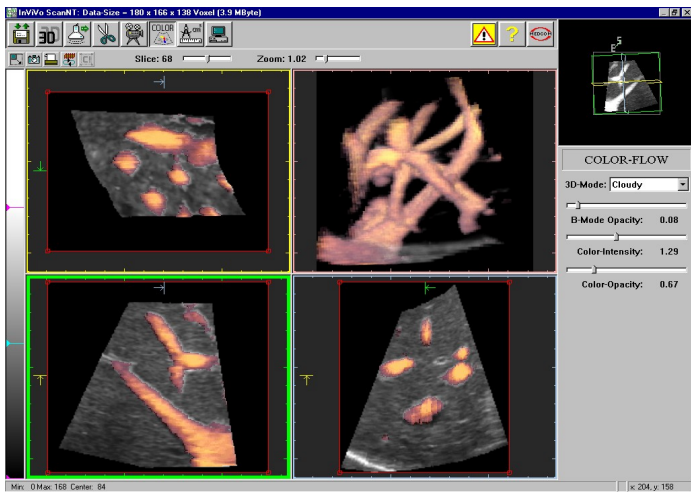
3D visualisation of a foetus in the 7<sup>h</sup> (left) and the 14<sup>th</sup> (right) week. Notice the fingers!



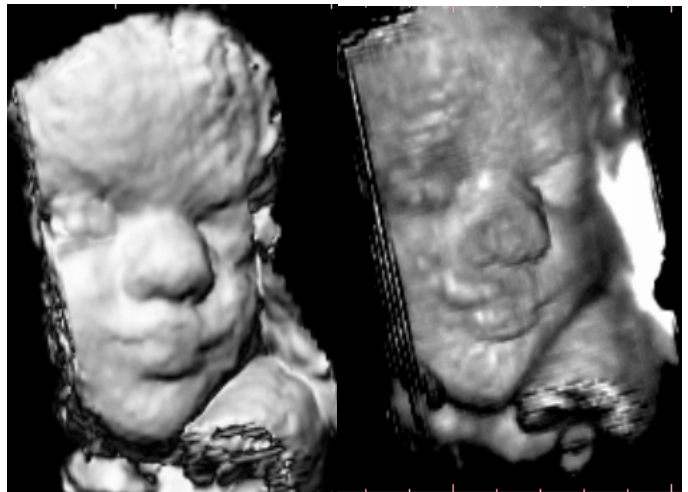
Angio-mode scans of liver: left semi-transparent, right isolated veins



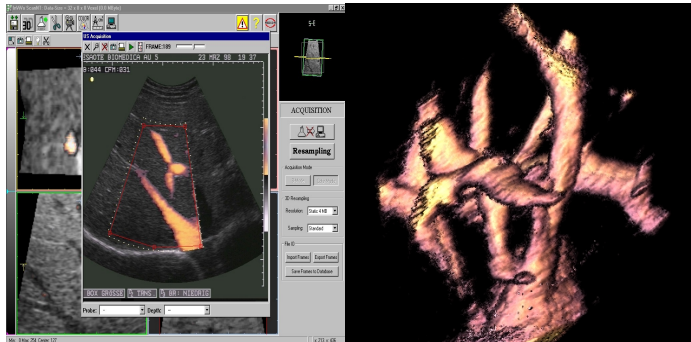
3D-rendering of bones (left) and hepatic veins (right)



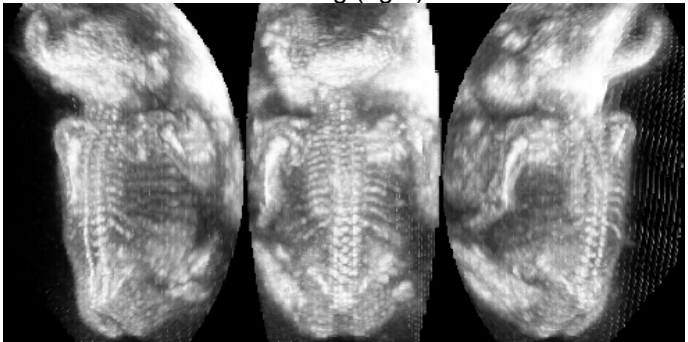
The User Interface of InViVo-ScanNT



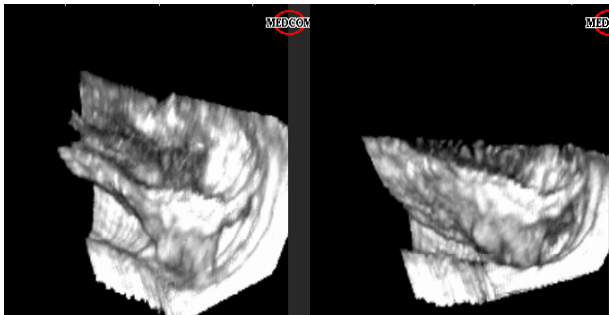
Foetus face in surface (left) and semi-transparent rendering (right)



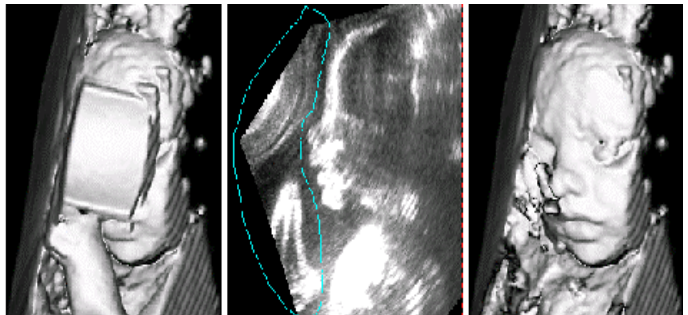
Vessels in angio-mode acquisition (left) and 3D surface reconstruction (right)



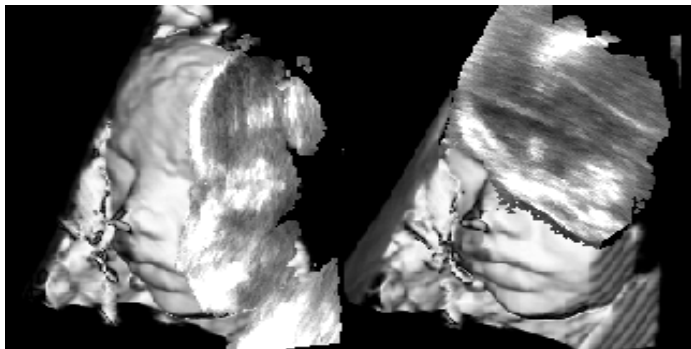
MIP visualisation of the foetal skeleton



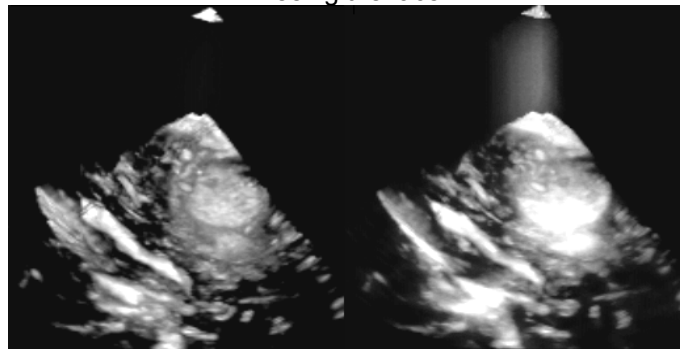
Ophthalmologic scans



Isolating (middle) and removing the near-field artefacts freeing the face



Arbitrary oblique cuts from the 3D reconstruction



Brain tumour as semi-transparent surface (left) or "cloud" (right)

