

SETRED MD20-3D

3D FOR
PHYSICIANS
GLOBAL COMMERCIAL
LAUNCH - ECR 2010

UNIQUE 3D VISUALISATION TECHNOLOGY FOR HIGH-END MEDICAL APPLICATIONS

**NO 3D-GLASSES. HIGH RESOLUTION, LARGE DEPTH
3D DISPLAY. IDEAL FOR MULTIPLE USERS.
INTERACTIVE SOFTWARE FOR VOLUME
VISUALISATION OF MEDICAL IMAGES.
COMPATIBLE WITH ANY DICOM DATASET.**



”THE IMAGE ON SETRED’S SCREEN LOOKS JUST LIKE A HOLOGRAM - WITH A CLARITY AND DEPTH GIVING THE RIGHT PROPORTIONS,”

SAYS ANDERS PERSSON, RADIOLOGIST AND DIRECTOR OF THE CENTER FOR MEDICAL IMAGE SCIENCE AND VISUALIZATION, CMIV, AT LINKÖPING UNIVERSITY, SWEDEN.



The innovative SETRED MD20-3D visualisation is a significant milestone and an exciting first step towards delivering surgeons, radiologists and other medical professionals greater ease and efficiency when it comes to diagnosis, surgery planning and surgical navigation. The SETRED MD20-3D is highly suitable for a wide range of medical applications such as neuro-surgery, radiology, interventional radiology and cardiology.

HOW THE SETRED MD20-3D VISUALISATION SOLUTION WILL BENEFIT YOU AS A MEDICAL PROFESSIONAL?

The SETRED MD20-3D Display and Samurai-3D Medical Imaging Software enable surgeons, radiologists and other medical professionals to view more patient image information at one time than ever before, and more easily, to potentially save time, reduce errors and improve certainty of surgical interventions.

ENHANCE YOUR DIAGNOSIS AND SURGERY PLANNING

Setred’s pioneering 3D visualisation solution delivers a true depth medical imaging experience without the use of glasses to enhance diagnosis, surgery planning and surgery navigation by giving users a more intuitive view of the data than provided by a traditional 2D display.

PROVEN INNOVATION

A clinical investigation¹, performed by Rikshospitalet in Oslo, showed that identification of intracranial arteries in 3D models from time-of-flight MR-angiography can be improved by using Setred’s 3D display.

Compared with 3D visualisation using glasses, the Setred medical MD-20 visualisation solution makes stereo 3D more accessible and easy to use, as well as improve ergonomics by reducing negative effects such as nausea and fatigue often experienced with conventional stereo viewing.

CLINICAL APPLICATION DRIVEN HIGH-END MEDICAL 3D VISUALISATION

The SETRED MD20-3D solution comprises two unique elements developed by Setred and tailored to benefit medical imaging: A 20-inch workstation display with Class IIA CE certification for medical devices. And the Samurai interactive software for volume visualisation of medical images that works with any DICOM-compatible datasets.

STRENGTHEN YOUR RESEARCH OPPORTUNITIES

Setred’s high-end 3D visualisation solution provides a unique platform for front-line research/clinical studies within image based medical diagnosis and treatment. The addition of true 3D visualisation opens up possibilities for entirely new ways of presenting volume data. Thanks to the broad-spectrum flexibility of its innovative visualisation solution, Setred is also able to support leading research centres with prototype development to allow evaluation of entirely new visualisation concepts.

CURRENT RESEARCH PARTNERS

Center for Medical Image Science and Visualization (CMIV) at Linköping University (www.cmiv.liu.se). CMIV conducts focused front-line research within multidisciplinary projects providing solutions to tomorrow’s clinical issues.

Rikshospitalet University Hospital, Oslo (www.rikshospitalet.no). Rikshospitalet is a highly specialised university hospital with national responsibilities within complicated treatments. The Clinic for imaging and intervention has worked with Setred since 2005.

BENEFIT FROM SETRED INNOVATION

UNPARALLELED 3D DISPLAY

Setred’s display acts as a digital hologram and has a set of features that makes it uniquely suited for high-end medical application:

1. AUTOSTEREOSCOPIC:

No 3D-glasses required.

2. HIGH END 3D QUALITY:

High resolution, large depth, with motion horizontal parallax (look-around capabilities).

3. WIDE FIELD OF VIEW:

Allows for multiple viewers and freedom of movement.

4. NO HEAD TRACKING:

High reliability and unlimited number of viewers.

5. FLEXIBILITY:

Adapt to different user situations simply by pushing a button.

SAMURAI-3D MEDICAL IMAGING SOFTWARE

Samurai is an interactive software solution for volume visualisation of medical images. It can be used to view any DICOM compatible datasets including CT, MRI, PET, 3D Angiography and 3D ultrasound. The applications has the following key features:

1. MULTIPLE RENDERING MODES:

Volume rendering, volume rendering with lighting. Maximum Intensity Projection (MIP).

2. CLIP PLANES:

Use clipping planes and other region of interest functionality to focus on the relevant part of the data.

3. 4D-DATA SUPPORT:

The application supports time series of CT, MRI and ultrasound data

4. MODALITY PRESETS:

Save and retrieve transfer function and rendering mode settings.

5. PRESENTATION: Prepare and save relevant views for presentation to colleagues.

6. PACS INTEGRATION:

Datasets can be retrieved from the PACS.

¹ An autostereoscopic 3D display improves identification of intracranial arteries in 3D models from time-of-flight MR-angiography. The study was first presented at ECR2009.

ABOUT SETRED

Setred is a technology innovation company that develops innovative 3D visualisation technology for professionals. The revolutionary plug and play full 3D display technology enables high quality 3D without the use of special glasses or other head tracking devices. Focused on becoming a world leading supplier of 3D displays, Setred has a number of pending wholly owned patent applications. Stemming from a display technology research project at the UK’s prestigious Cambridge University, Setred was founded in 2004 and currently has offices and research facilities in Oslo, Stockholm and London.



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