

Press Release

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New: Sarano ultrasound system

Universal sonograph for ambulant and stationary applications

**Modern hardware, software and probe technology /
High resolution images, increased diagnostic confidence /
Fully digital system architecture**

Shimadzu, world-wide manufacturer of diagnostic imaging equipment, has introduced its new Sarano digital black and white ultrasound system at the Medica 2006 Trade Fair in Dusseldorf, Germany. This all-round system combines the latest in hardware, software and probe technology, generating high-performance imaging quality as well as improving the digital handling of clinical data. The Sarano is suitable for hospital use and private practice – for stationary as well as ambulant applications. A large number of medical fields, such as radiology, internal medicine, urology, gynaecology and obstetrics will benefit from this economical and efficient instrument.

High-resolution images

The core technology for the improved transmission quality and accurate display of the ultrasound image data is the newly developed digital beam former with DBT technology. It processes and transmits data ten times faster without any noise. In this way, even the most delicate tissue structures can be shown through high-resolution ultrasound images.

Additional system functionalities support the extraordinary image quality of the Sarano system. This includes micro-imaging array technology for the maximum frequency of 15 MHz. In addition, the five-tier fine-tuning of the probe frequency and consequently the diagnosis-specific settings both contribute to the improved images. Tissue Harmonic Imaging (THI) increases the spot- and contrast resolution in the B-mode under difficult diagnostic conditions. Fast image iteration frequencies, focussing on the pixel level as well as high image dynamics further increase authentication and diagnostic confidence.

Advantages for patients and physicians

The wide range of high-resolution probes and their patient-friendly ergonomic design make the Sarano an extremely versatile instrument. The electronic probes offer optimal image display. Physicians will benefit from the lightweight easy to handle probes preventing early signs of fatigue.

The panoramic angle of up to 198° at endocavitary diagnosis enables excellent orientation. User-specific optimization of image resolution is possible via the frequency spectrum of 2 – 15 MHz and the 5-tier frequency mode.

Digital platform

Based on the fully digital and 'open' system architecture and the high performance of the Sarano, the system is fully prepared for future developments. It can be integrated in a LAN as well as a DICOM high-performance network. The clinical images are transferred to a PC as JPEG or bitmap data. They can also be stored on a USB stick for transfer to a PC outside of the network or to pass on to the patient.

The keypad has also been newly designed. All neighboring keys are easily accessible via the central trackball. The most frequently used

functionalities are arranged within easy reach. Diagnosis specific presettings enable fast and targeted operation of the system. Freely programmable function keys support individual physician requirements and optimize the workflow.

Caption: The new Sarano ultrasound system with fully digital system architecture for ambulant and stationary application.

For further editorial questions, please contact: Uta Steeger
Shimadzu Europa GmbH, Albert-Hahn-Str. 6-10, 47269 Duisburg, Germany
Tel.: +49 (0) 203-7687410, E-mail: us@shimadzu.de

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