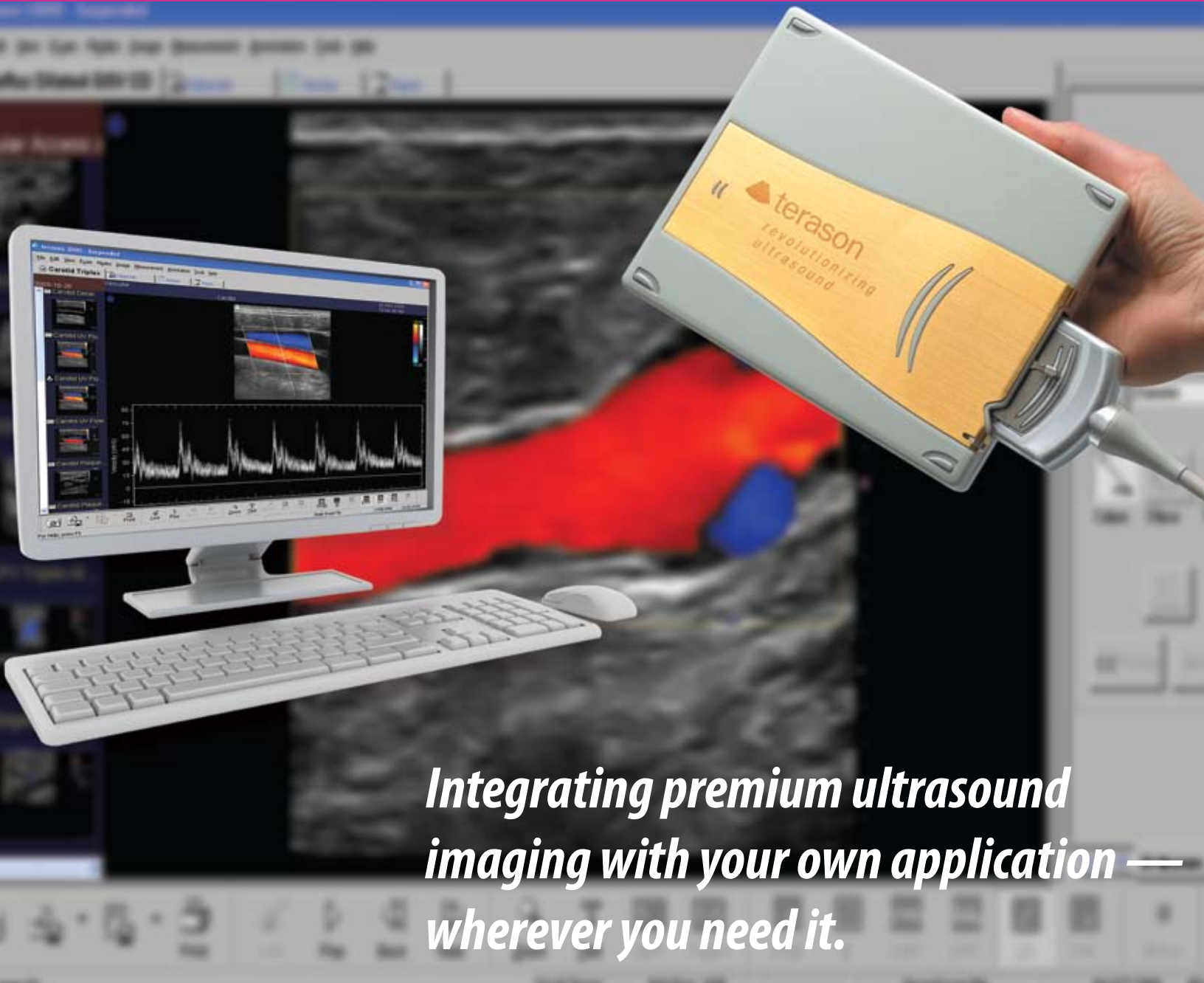


FAST... EASY... SEAMLESS...

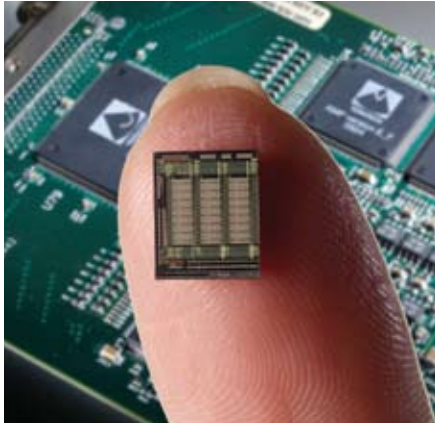


Integrating premium ultrasound imaging with your own application — wherever you need it.

terason
*revolutionizing
ultrasound*

F a s t I n t

Anywhere you need it



Terason's versatile, miniaturized system-on-a-chip architecture, coupled with a Windows®-based software application, provides a premium and cost-effective ultrasound solution that can be embedded seamlessly into your product, anywhere you need it.

Our unique custom-designed chip consumes significantly less power and has a much smaller footprint than a conventional ultrasound system, resulting in simple integration into your Windows compatible product.

Terason's flexible PC architecture simplifies RF acquisition and data storage, enabling exportation of proprietary raw data files to MAT LAB — a signal processing package — that takes raw data from our system and processes it for research and development, and then displays it in a custom image format. MAT LAB also provides users the ability to utilize captured data while offline.



Integrate with flexibility

The self-contained, system-on-the chip engine is not only small enough to fit in your hand but also functions by itself without additional hardware. As a result, the engine can be placed anywhere within your product or application — whether it is next to the patient bed or inside a surgical biopsy system — wherever real-time ultrasound imaging is required. The engine and probes can be separated from the main computer, and the engine can also accommodate multiple probe connections to allow clinicians to quickly change probes with the press of a button.



Easy to customize

User interface customization is fast and easy. Our Software Development Kit (SDK) provides the tools that an OEM developer or researcher can use to build a unique user interface. The live streamed imaging utilizes a shared-memory, client-server architecture that provides high bandwidth with low overhead. Terason successfully integrated the ultrasound engine into a fully-functional off the shelf laptop PC used in multiple clinical applications.



e g r a t i o n

Unlimited integration possibilities

Terason's patented chip technology currently provides premium image quality and simple design, and we continue to innovate to allow you to take advantage of what the future holds for your specific needs.

Imaging guidance for surgical and interventional procedures

Simple to use, small footprint, real-time ultrasound imaging guidance for interventionalists or surgeons in the exam room is efficient and cost-effective. In the angiography suite, integrated ultrasound is used for any procedure requiring ultrasound visualization and guidance. The probes and a small electronic box (engine) are hung from the side of the exam room table, and a tableside joystick is used to operate the ultrasound application, negating the need for a conventional ultrasound system and freeing up valuable real estate in the exam room. The floor is clear of cables because the ultrasound engine is connected to a computer, which is running the ultrasound application, located in the control room. Ultrasound images are displayed overhead in the exam room as well as in the control room on multi-use monitors. For documentation and billing purposes, images are sent to the review station on the PACS with the push of a button.



Integrating ultrasound with other imaging modalities

Real-time ultrasound images fused with pre-acquired images from other modalities such as CT, MRI, X-Ray, PET and Nuclear Medicine, provide highly accurate, up-to-date information during interventional and surgical procedures. Terason ultrasound imaging is used in this manner to provide real time guidance during neurosurgery. Because the brain shifts slightly in position during surgery, there is a need for the real-time feedback that intra-operative ultrasound imaging provides. In addition, Doppler capabilities provide the surgeon with blood flow information for surgical planning and monitoring. The result is improved patient care. Terason's small-footprint, Windows-based solution is again ideal for this application. In this example, the small imaging engine is attached to the OR table and the ultrasound imaging control buttons are on the navigation system's touch screen.




Integrating ultrasound to enhance treatment effectiveness

Real-time ultrasound guidance can enhance radiation treatment to counteract the dynamic nature of the human body which may cause the tumor to shift slightly from the original pre-planned target. It also plays a key role in minimally invasive surgery. Terason's small-footprint ultrasound solution is utilized in ablation and cryotherapy systems to provide real-time guidance to more accurately monitor treatment. Now, all this can be accomplished with one self-contained system.



Premium performance and image quality

Terason received Frost and Sullivan's technology award. "The significance of the Terason system results from its best-in-class function and image quality. These features make Terason products comparable to high-end cart-based ultrasound systems," stated Frost & Sullivan. Terason imaging engine and software application are embedded in a wide range of applications, from interventional imaging guidance in real-time surgery to therapeutic treatment in ablation procedures to conventional ultrasound systems.

F R O S T  S U L L I V A N

North American Technology Innovation Award

Leading the way in integrated ultrasound solutions

With over 100 existing and pending patents, Terason's proprietary system-on-a-chip is developed to provide the smallest footprint with the lowest power consumption, resulting in a miniaturized premium ultrasound solution that is self-contained. Terason is the first company to receive patents on portable ultrasound, software-based scan conversion, software-based Doppler processing, PC-based ultrasound architecture, and integrated 2D-array for real-time 3D/4D ultrasound.

Terason is entrusted by thousands of clinicians and partners throughout the world in ultrasound screening, diagnosis and interventional guidance since its first product release in 2001.

*Revolutionize your platform with the Terason
complete ultrasound solution.*

*For more information,
please visit us at www.terason.com.*



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Any application • Any form • Any location