

Aixplorer®'s Ergonomics and UltraFast™ Platform- User Comfort and Diagnostic Effectiveness



SuperSonic Imagine's Aixplorer ultrasound system has the reputation of being "designed by and for practitioners." Every aspect of Aixplorer's design has been carefully considered by company engineers in unison with radiologists and sonographers to provide optimum comfort and ease of use. Aixplorer's state-of-the-art UltraFast computing platform also enables advanced applications allowing practitioners to reduce examination times while enhancing diagnostic confidence and effectiveness.

Aixplorer has a control panel that is completely adjustable and a 20-inch wide screen with a multi-joint arm that can be adapted to any workspace or angle. The user interface is very intuitive, featuring a touchscreen, trackball and touch ring allowing for quick access to various applications and features. The system also offers very fine adjustment of parameters such as manual and automatic TGC to achieve the finest image quality, quickly.

Aixplorer has consistently earned high critical acclaim by physicians who value and seek out advanced ergonomic designs:

"With the Aixplorer there is a decrease in operator dependence, workflow is easy and the control panel is simple to understand."
Professor Dr Med. Helmut Madjar - Breast Center German Diagnostic Clinic, Wiesbaden, Germany

"The Aixplorer is very ergonomic, very comfortable to use. It is a solid system that we have had for one and a half years without any technical problems."
Professor Dr Med. Fritz Schäfer - University Hospital Schleswig-Holstein, Kiel, Germany

The UltraFast platform, developed by SuperSonic Imagine and only available on Aixplorer, acquires information 100 times faster than any conventional ultrasound system. This processing speed has, for the first time, enabled physicians to visualise in great detail stiffness properties of tissue and transient phenomena that have never been seen before. By leveraging an UltraFast platform, Aixplorer's innovations such as quantitative ShearWave™ Elastography (SWE™) and UltraFast™ Doppler help improve visualisation capabilities so that physicians can obtain information faster and improve their clinical workflow.

Both, Aixplorer's proprietary ShearWave™ Elastography (SWE™) and UltraFast™ Doppler modes are activated with the push of a single button instead of a series of complex manual adjustments which consume valuable time.

"ShearWave Elastography is very easy to use; one just hovers over the lesion and doesn't need to compress in the least. It is reproducible and the image quality of the B-mode, where you assess the morphology and characteristics of the lesion, is also excellent."
Professor Ellen Mendelson - Northwestern Memorial Hospital, Illinois, USA

UltraFast Doppler combines Color Doppler and Pulsed Wave Doppler into a single feature without compromises between acquisition speed, field of view and sensitivity. Vascular exams with UltraFast Doppler take only 3 seconds per area, with all measurements and analysis performed post examination, increasing patient throughput. UltraFast Doppler simplifies the vascular exam by showing peak velocity areas immediately and saves time over conventional Doppler modes where acquisitions must be repeated several times for the same exam and analysis must be completed with the patient present.

"We have very regular monitoring of [kidney] transplants, UltraFast Doppler saves us a lot of time while reducing the risk of error. All acquired data are stored, and they can be reviewed, measured, analyzed multiple times without the presence of the patient. In addition, the amount of data acquired provides the ability to view all the vessels in a very precise manner."
Dr. Hisham Tchelepi - Wake Forrest Baptist Medical Center, North Carolina, USA

Published on : Wed, 20 Mar 2013