Aixplorer®

Innovative UltraFast™ Ultrasound Imaging

Breast

Comprehensive Imaging Solution For the Management of Breast Cancer Patients

SuperSonic Imagine, the pioneers of ShearWave™ Elastography (SWE™), has raised the bar in breast imaging. With the latest evolution of the Aixplorer® ultrasound system, breast specialists now have access to:

- Premium image quality through a comprehensive suite of breast optimized transducers
- Innovations including real-time SWE™ – both 2D and 3D – Angio PL.U.S. and now TriVu all only available on Aixplorer
- The most clinically studied shear wave-based elastography technology for breast lesion characterization

SWE™ SHEARWAVE ELASTOGRAPHY

FASTER WORKFLOW

MOST CLINICALLY STUDIED

Aixplorer®

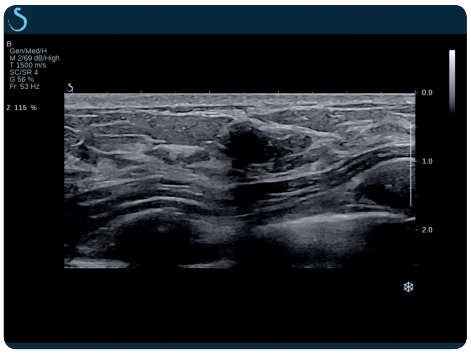
Innovative Ultrasound Imaging

Premium Image Quality

Comprehensive Suite of Breast Optimized Transducers:

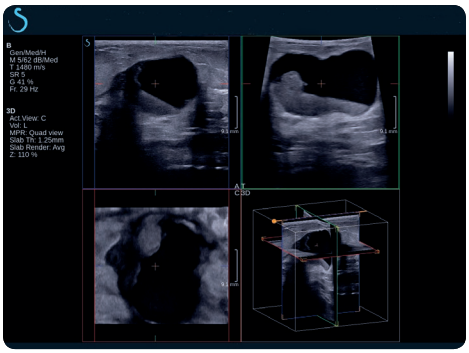
Aixplorer provides a suite of transducers specifically designed to image a large variety of breast types and facilitates image analysis by the radiologist. All transducers include breast specific presets with B-mode imaging, Color Doppler and real-time ShearWave™ Elastography.

SuperLinear™ SL18-5



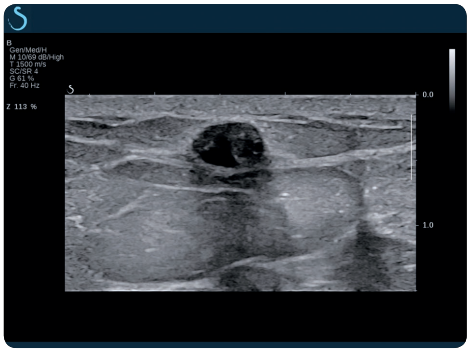
NEW:
High resolution, wide bandwidth transducer specifically designed for breast imaging.

SuperLinear™ Volumetric SLV16-5



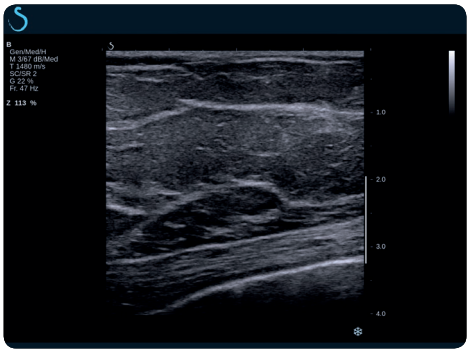
The most advanced 3D B-mode and 3D real-time ShearWave technology on Aixplorer's Volumetric transducer.

SuperLinear™ SLH20-6



NEW:
Very high resolution imaging ideal for superficial masses, nipple and the areolar region.

SuperLinear™ SL10-2



Optimized imaging for visualization of deep lesions.

SWE™ ShearWave Elastography

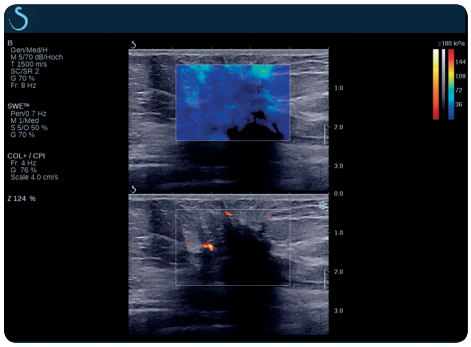
Faster Workflow

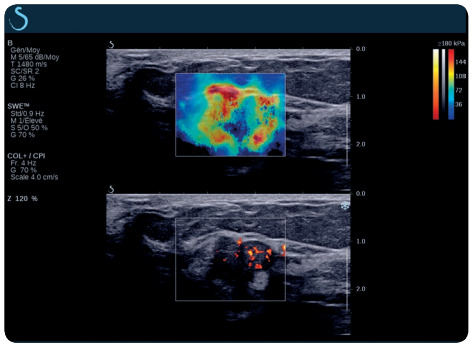
Most clinically studied

Breast Ultrasound Innovations:

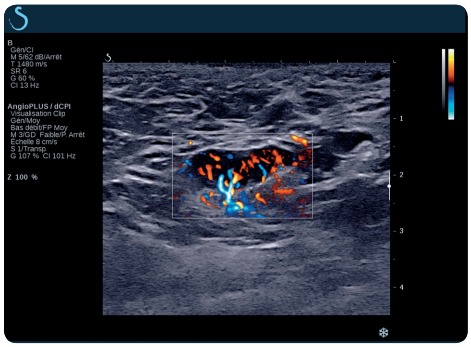
SuperSonic Imagine is leading the way in ultrasound innovation to help with the management and care of breast cancer patients. Aixplorer is the only ultrasound system with an UltraFast™ platform that can acquire images 200 times faster than conventional ultrasound systems. This technology is the foundation of real-time breast imaging innovations including:

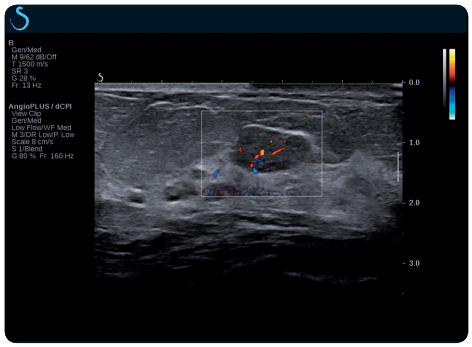
NEW: TriVu, a cutting edge real-time simultaneous imaging mode that combines B-mode, SWE™ and Color+ imaging. TriVu allows physicians to visualize anatomy, tissue stiffness, and blood flow in the breast tissue in exactly the same plane, at the same time.



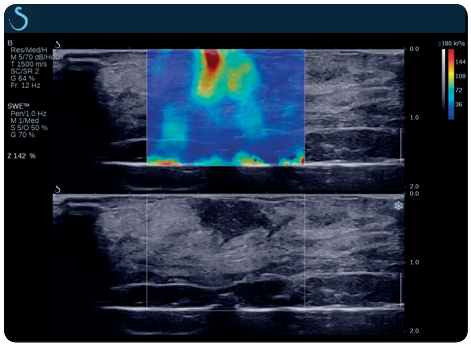


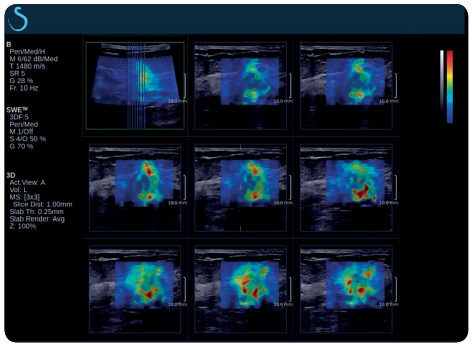
Angio PL.U.S. – PLanewave UltraSensitive™ imaging, provides a new level of microvascular imaging through significantly improved color sensitivity and spatial resolution while maintaining exceptional 2D imaging.





ShearWave Elastography, in both 2D and 3D, allows physicians to visualize and analyze the stiffness of tissue in a real-time, reliable, quantitative and reproducible manner. This criteria has become an important parameter in diagnosing potentially malignant tissue or other diseased breast tissue.





Clinical Outcomes:
Breast Real-time ShearWave™ Elastography

SuperSonic Imagine's Aixplorer® ultrasound system with real-time ShearWave™ Elastography (SWE™) has been proven to be a complementary tool for the management of breast cancer patients for:

- Lesion characterization[1]
- Surgical planning[2]
- Therapy monitoring[3]

With data from over 100 peer reviewed publications, including several from the largest multi-national breast study conducted with more than 1600 women enrolled and over 1800 breast lesions imaged, SuperSonic Imagine's real-time ShearWave™ Elastography is the most studied shear wave-based technology for breast cancer management.

SuperSonic Imagine's real-time SWE™ technology has been extensively studied with the aim to demonstrate:

- Better discrimination of probably benign lesions (BIRADS 3) from suspicious masses (BIRADS 4)
- Improved sensitivity to >98% and specificity from 61% to 78%[1], thereby reducing the number of false positives of breast ultrasound
- Improved lesion localization on 2nd look ultrasound after MRI[4]

Sensitivity >90%

Specificity increased from 61–78%, reducing false positives

Additional Key Benefits

Faster workflow, higher throughput

- Excellent lesion conspicuity for faster screening and superior lesion discrimination
- One button press real-time SWE™
- Integrated BI-RADS™ classification tool
- Q-Box™ allows measurements of tissue stiffness in kiloPascals or m/s.
- Tissue Harmonic Imaging
- TissueTuner™ technology to adapt spatial resolution for breast density

Biopsy guidance

- Advanced beam steering for enhanced needle visualization during ultrasound guided biopsy procedures
- Needle biopsy guides for easy and accurate needle placement are available
- Compatible with CIVCO eTRAX™ and VirtuTRAX™ needle guidance solutions

Advanced 3D Imaging

- 3D Multi-Slice and Multi-Plane views in B-mode and SWE™
- Volume navigation through the entire breast
- Aixplorer is compatible with several whole breast imaging systems, such as SonoCiné

References:

1 Berg WA et al. Radiology. 2012 Feb;262(2):435-49
2 Mullen R et al. Clin Radiol. 2014 Dec;69(12):1259-63
3 Lee SH et al. Ann Surg Oncol. 2015 Dec;22 Suppl 3:376-84
4 Plecha DM et al. Radiology. 2014 Sep;272(3):657-64

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