SIEMENS

www.siemens.com/ultrasound

Proven Performance. Enhanced Care.

ACUSON Antares Ultrasound System

Powering Advanced Care

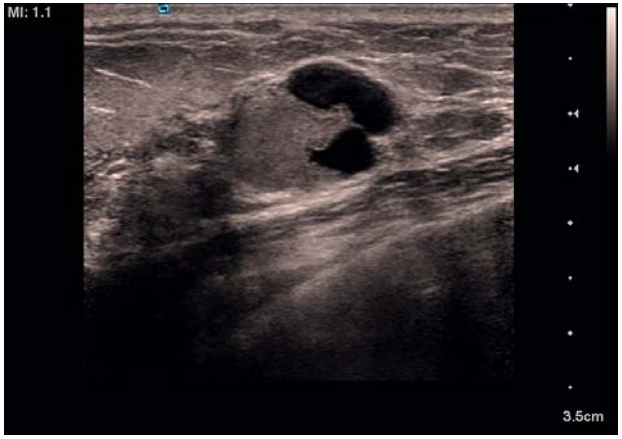
We designed the ACUSON Antares™ ultrasound system for use in multiple specialties, allowing you to provide the highest standard of care—for every patient, every exam. Ideal for shared service environments in hospitals and private practices, the ACUSON Antares delivers excellent overall performance and a unique ErgoDynamic™ imaging system design that helps you work smarter. By leveraging our decades of ultrasound innovations, this proven platform is designed to increase advanced OB/GYN 3D/4D imaging.

Key Benefits

- Reduced start-up and shut-down times with QuikStart standby mode
- Superb contrast resolution, high frame rate and excellent signal-to-noise ratio achieved by Precision Up-Sampling, MISA Beamformation and GigaProcessing technologies
- Optimal resolution and imaging penetration for all body types with MultiHertz multiple frequency imaging using one transducer

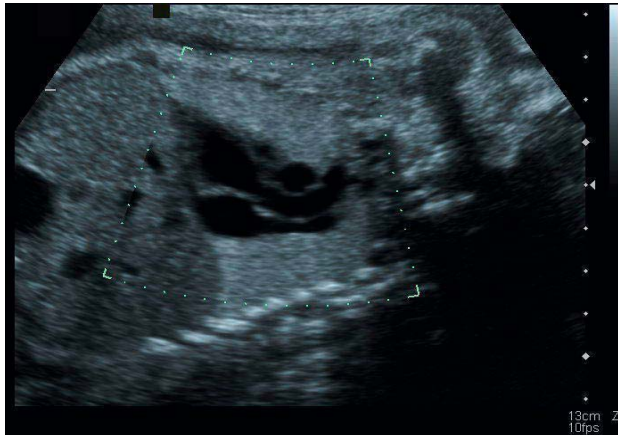
BREAST

Advanced SieClear spatial compounding and Dynamic TCE tissue contrast enhancement technology improve visualization and characterization of this complex breast mass.



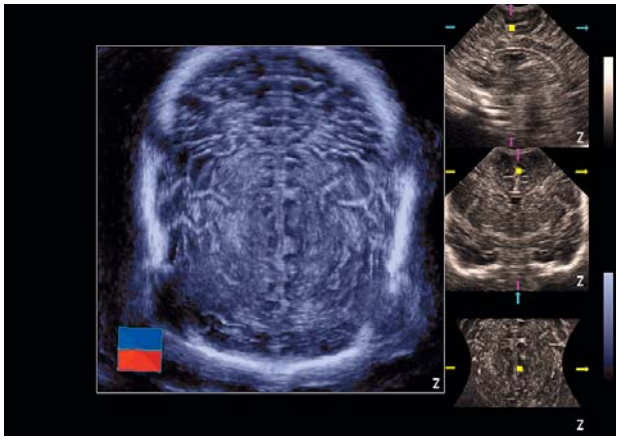
GYNECOLOGY

Advanced SieClear spatial compounding and Dynamic TCE tissue contrast enhancement technology enhance subtle tissue differences in the uterus.



OBSTETRICS

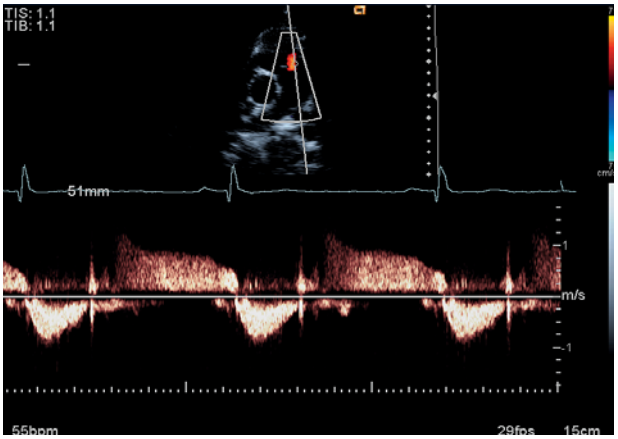
Clarify vascular enhancement technology removes artifact and enhances visualization of fetal cardiac structures.



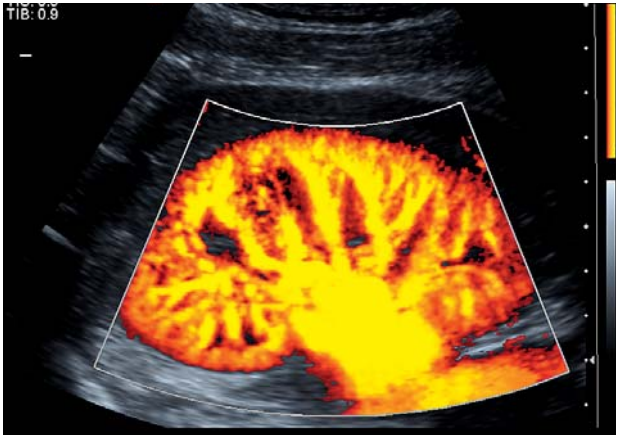
NEONATAL

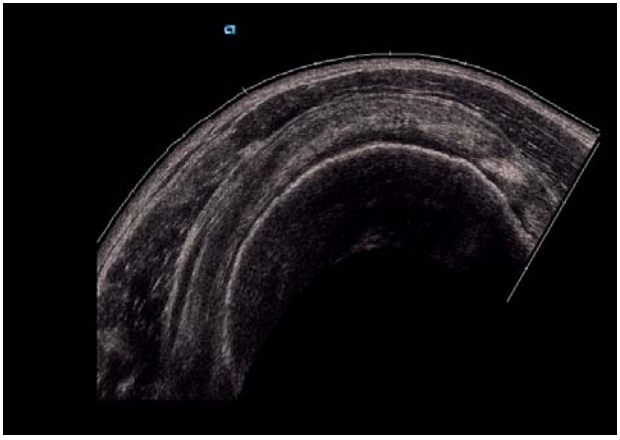
3-Scape real-time 3D imaging of the neonatal brain provides additional views for clinical evaluation.

CARDIAC
Steerable CW demonstrates sensitivity in detection of this mild pulmonic insufficiency jet.

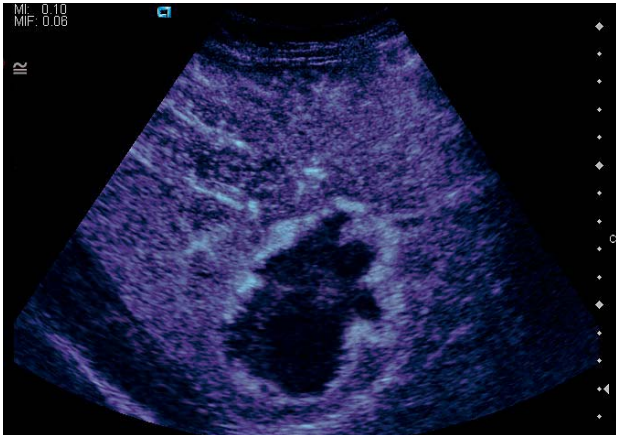


RENAL
Power Doppler displays renal perfusion with superb spatial resolution.





MUSCULOSKELETAL
SieScape panoramic imaging allows for a true anatomical representation of the rotator cuff.

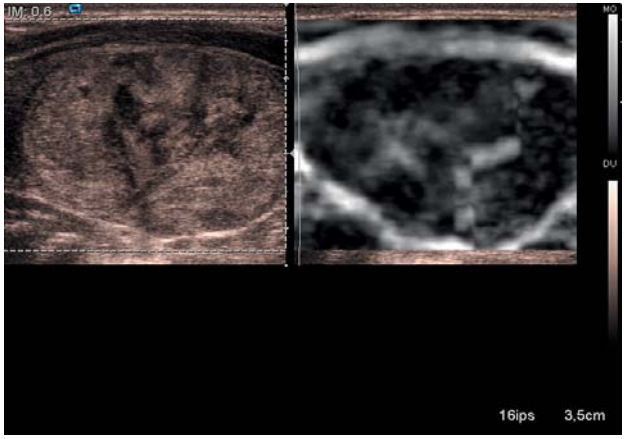


CONTRAST
Cadence contrast pulse sequencing technology* aids in diagnosis of this liver hemangioma.

*At the time of publication, the U.S. Food and Drug Administration has cleared ultrasound contrast agents only for use in LVO. Check the regulations for the country in which you are using this system for contrast agent clearance.

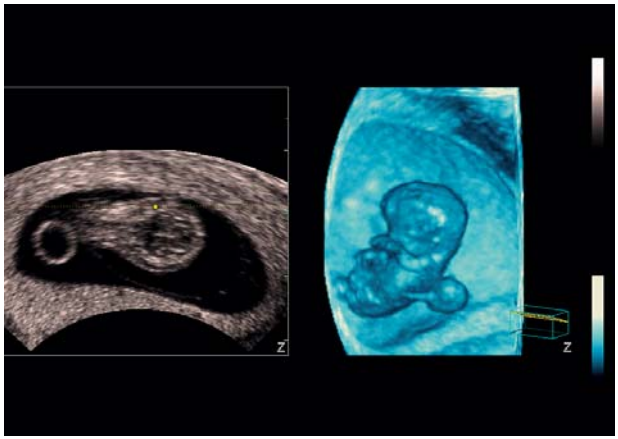
THYROID

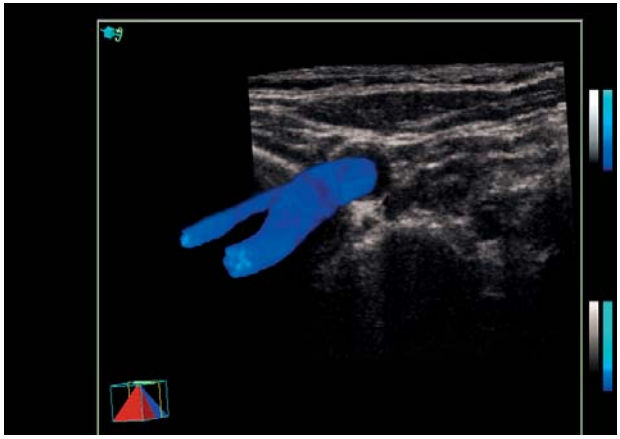
eSie Touch elasticity imaging displays relative tissue stiffness in this solid thyroid mass.



OBSTETRICS

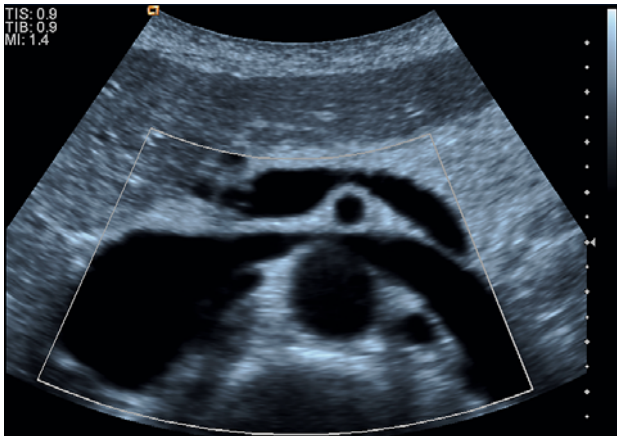
Excellent anatomical detail with 3-Scape real-time 3D imaging of this first trimester fetus and yolk sac.





VASCULAR

3-Scape real-time 3D imaging of the carotid artery bifurcation.



ABDOMEN

Clarify vascular enhancement technology enhances vessel-tissue boundaries and reduces slice thickness artifact throughout the field of view.

Imaging Performance & Application Versatility

The ACUSON Antares ultrasound system gives you imaging power and application versatility to support everything from your most superficial small parts exam through the technically difficult patient. This powerful platform offers comprehensive applications for radiology, gastrointestinal, OB/GYN and cardiology clinical environments and features many of Siemens' most innovative imaging technologies.

Versatile. Flexible. Powerful.

*four*Sight™ 4D Imaging Technology
Ensures accuracy and reproducible results by providing real-time images of anatomical structures and pathological conditions displayed simultaneously in multiple spatial dimensions.

Cadence™ Contrast Pulse Sequencing Technology*
Simultaneously detects signatures that are unique to contrast agents and tissue for superior sensitivity in lesion detection and characterization.

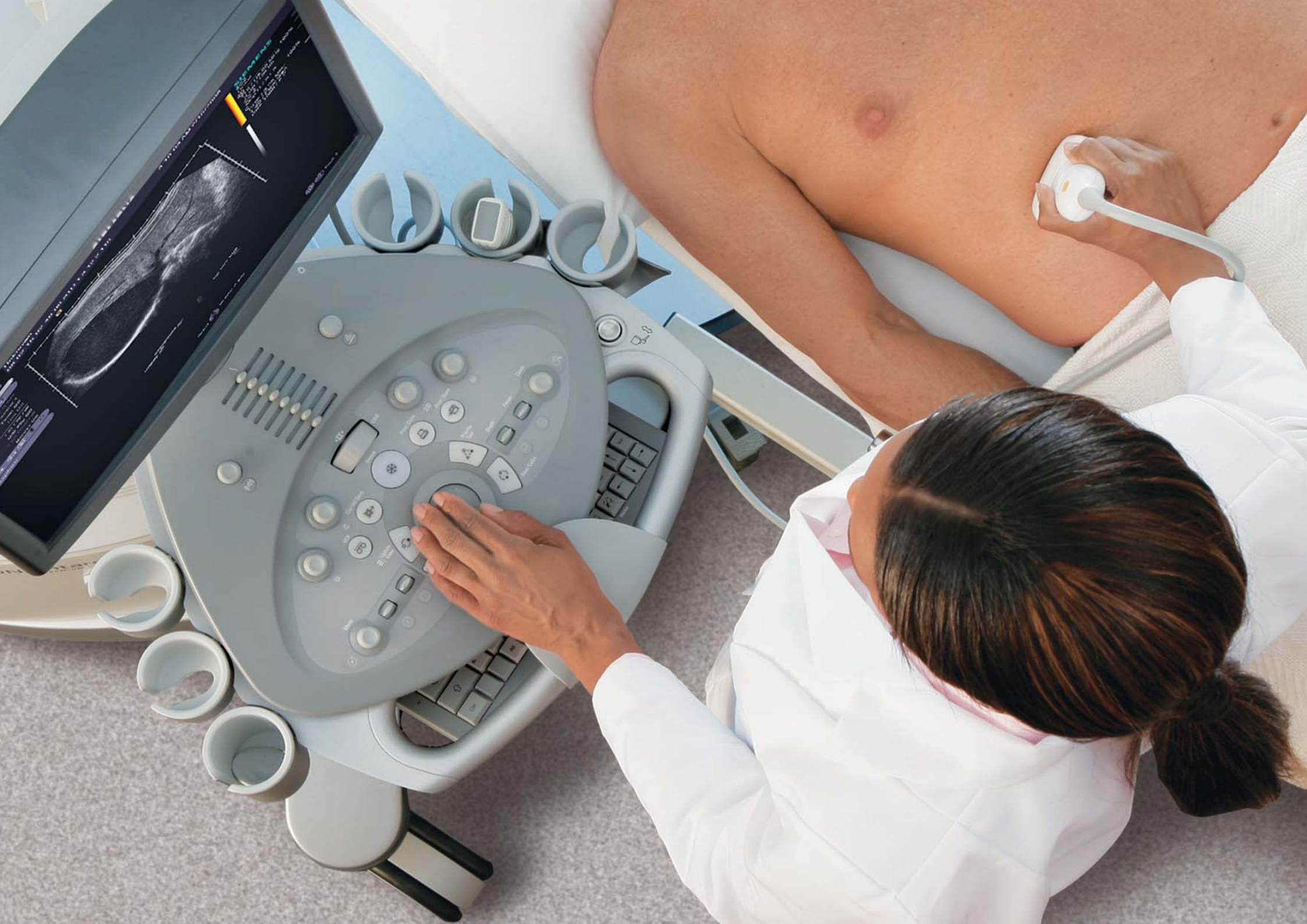
Clarify™ Vascular Enhancement (VE) Technology
A breakthrough in 2D imaging that uniquely utilizes power Doppler flow information to enhance B-mode imaging and also reduces noise within macro- and microvascular structures.

eSie Touch™ Elasticity Imaging
A real-time qualitative imaging method to calculate and display the relative stiffness of tissue Elastograms (images of tissue strain) are generated by applying gentle sequential compression cycles during standard B-mode imaging. An elastogram of the displacement of tissue is displayed in a live dual image in grayscale or color for increased diagnostic findings and confidence.

*At the time of publication, the U.S. Food and Drug Administration has cleared ultrasound contrast agents only for use in LVO. Check current regulations for the country in which you are using this system for contrast agent clearance.

Key Benefits:

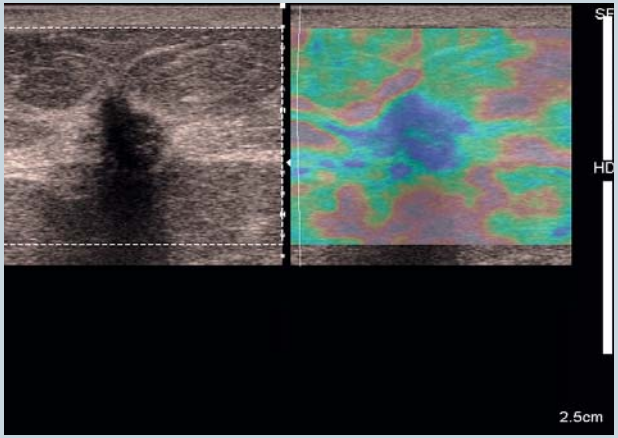
- Superior 2D, color and power Doppler performance in technically difficult-to-image patients with Extend imaging technology
- Additional clinical information provided on myocardial function using Siemens' pioneering DTI™ Doppler Tissue Imaging capabilities
- Exceptional spatial and contrast resolution with ultra-fine control of the ultrasound beam using Multi-D matrix array transducers
- Protect your investment with fully-featured versatile applications



Application Features

The ACUSON Antares ultrasound system utilizes Multi-D™ array transducer technology to provide extraordinary quality in high-frequency imaging. Abdominal, Breast, OB/GYN, Small parts, Vascular and superficial Muscoskeletal imaging are easily accomplished using advanced technologies such as SieClear spatial compounding, *four*Sight 4D, and Clarify vascular enhancement technology. Workflow advancements such as TEQ™ ultrasound technology increase clinical efficiency while the ErgoDynamic imaging system design improves operator comfort, making the ACUSON Antares system the ideal solution for your ultrasound imaging needs.

ABDOMEN
Advanced SieClear spatial compounding combined with Dynamic TCE tissue contrast enhancement improves detail and contrast resolution.



BREAST
eSie Touch elasticity imaging displays the true borders of this solid breast mass.

Breast Imaging

eSie Touch Elasticity Imaging:
A real-time qualitative imaging method that calculates and displays the relative stiffness of tissue. The live dual image display of the elastogram and the standard B-mode image enhance ease-of-use and provide quantitative comparison with area and distance ratio measurements. Mapping options in grayscale and color are also available.

Fatty Tissue Imaging:
A speed-of-sound adaptation specifically designed for fatty tissue. Optimizes the image in real-time to enhance B-mode image quality with improved lateral and contrast resolution for superior ultrasound imaging of the fatty breast.

Advanced SieClear™ Spatial Compounding:
A real-time compounding technique that applies an industry-first 13 lines of sight at greater steering angles to improve contrast resolution and border detection. Siemens' Dynamic TCE™ tissue contrast enhancement algorithm simultaneously achieves speckle reduction, contrast enhancement and improvement in coherence of anatomical structures. Tissue stabilization reduces the artifacts seen in compounded images, yielding unprecedented image clarity.

SieScape™ Panoramic Imaging:
Provides extended field of view images acquired with real-time high-resolution grayscale imaging. Allows display and measurement of large structures, providing a global view for orientation. Also available for Power Doppler imaging.

Virtual Format Imaging:
Supports 2D beam steering including wider field of view, trapezoidal image format for visualizing large superficial structures.

Abdominal Imaging

Advanced SieClear Spatial Compounding:
A real-time compounding technique that applies industry-first 13 lines of sight at greater steering angles to improve contrast resolution and border detection for greater diagnostic accuracy. Siemens' Dynamic TCE tissue contrast enhancement technology algorithm simultaneously achieves speckle reduction, contrast enhancement and improvement in coherence of anatomical structures. Tissue Stabilization reduces the artifacts seen in compounded images, yielding unprecedented image clarity.

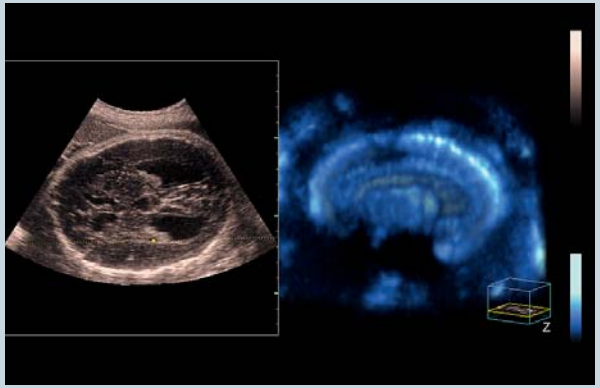
Clarify Vascular Enhancement (VE) Technology:
This technology uses power Doppler flow information to enhance B-mode imaging and also reduce noise within macro- and microvascular structures in abdominal organs and vessels for exceptional contrast resolution, enhanced tissue information and reduced exam times.

Cadence Contrast Pulse Sequencing Technology*:
Enhances sensitivity and specificity to contrast agent signals for excellent lesion detection and characterization. Provides image information in three configurations: tissue only, contrast-agent only or tissue with contrast-agent.

TEQ Ultrasound Technology:
Provides one-button optimization of the 2D image with changes in the scanning window. Using sophisticated signal-processing technology, TEQ technology automatically equalizes tissue gain and brightness in two dimensions.

Extend Imaging Technology:
Improves penetration at depth in 2D, color and Power Doppler to enhance image quality in technically difficult-to-image patients.

*At the time of publication, the U.S. Food and Drug Administration has cleared ultrasound contrast agents only for use in LVO. Check current regulations for the country in which you are using this system for contrast agent clearance.



OBSTETRICS
3-Scape™ real-time 3D imaging allows for enhanced visualization of fetal ventriculomegaly.

OB/GYN Imaging

Advanced *four*Sight Technology:
Offers comprehensive 3D/4D acquisition, data rendering and post-processing functionality on transabdominal and endovaginal OB/GYN examinations.

Advanced SieClear Spatial Compounding:
Real-time compounding technique applies industry-first 13 lines of sight at greater steering angles to improve contrast resolution and border detection. Siemens' Dynamic TCE tissue contrast enhancement algorithm achieves speckle reduction and coherence of anatomical structures.

Clarify Vascular Enhancement Technology:
Reduces noise and artifacts in vessels for exceptional contrast resolution and clear delineation of structures during fetal-echo examinations.

Amnioscopic Rendering:
Unique innovation in surface rendering diffuses light into the imaged structure, yielding the most realistic fetal ultrasound image ever seen.

***syngo*® Auto OB Measurements:**
Innovative algorithm reduces user variance when performing biometric measurements by providing automated measurement of four major fetal structures.

OB Workflow:
Structured reporting and historical OB Trending automatically transfers and recalls patient and calculation data to and from DICOM obstetrical reporting packages.

THYROID
Advanced SieClear spatial compounding combined with Dynamic TCE tissue contrast enhancement enhance detail and contrast resolution of this thyroid carcinoma

Small Parts Imaging

Advanced SieClear Spatial Compounding:
A real-time compounding technique that applies industry-first 13 lines of sight at greater steering angles to improve contrast resolution and border detection. Siemens' Dynamic TCE tissue contrast enhancement algorithm simultaneously achieves speckle reduction, contrast enhancement and improvement in coherence of anatomical structures. Tissue Stabilization reduces the artifacts seen in compounded images, yielding unprecedented image clarity.

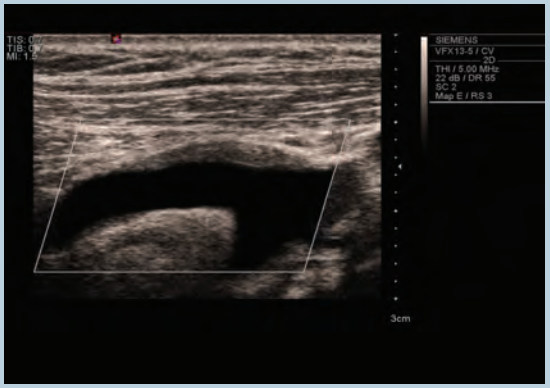
Clarify Vascular Enhancement Technology:
Reduces noise and artifacts to offer exceptional contrast resolution and clear delineation of micro-and macrovasculature in superficial organs and vessels.

Virtual Format Imaging:
Provides 2D beam steering including wider field of view, trapezoidal image format for visualizing large superficial structures.

SieScape Panoramic Imaging:
Provides extended field of view images acquired with real-time high-resolution grayscale imaging. Allows display and measurement of large structures, providing a global view for orientation. Also available for Power Doppler imaging.

TEQ Ultrasound Technology:
Features single-button optimization for 2D and spectral Doppler imaging. Instantaneously optimizes the image for consistent, reproducible image quality and reduced operator strain and fatigue.

eSie Touch Elasticity Imaging:
Real-time imaging method utilizes proprietary algorithms to calculate and display the relative stiffness of tissue. Multiple grayscale and color maps along with tools for quantification of lesion size facilitate analysis. A visual quality indicator as well as prospective and retrospective clip capture allow clinicians to select the highest quality elastogram.



VASCULAR
Clarify vascular enhancement technology removes artifact to enhance visualization of ICA intimal thickening.

Vascular Imaging

syngo® Arterial Health Package*:
Migrated from the ACUSON Sequoia™ ultrasound system, this semi-automated intima-media thickness quantification tool provides a non-invasive method to evaluate cardiovascular risk. The Siemens method correlates with the Stein algorithm and Framingham risk scoring so that vascular age and coronary health can be predicted.

Virtual Format Imaging:
Provides 2D linear beam steering, allowing optimal insonation angle in 2D imaging for improved interrogation of vascular anatomy.

Clarify Vascular Enhancement (VE) Technology:
Improves B-mode imaging by reducing noise and artifacts within vessels, affording clearer wall and vessel-lumen definition.

DICOM Structured Reporting:
Streamlines clinical reporting process by automatically transferring patient and calculation data to DICOM vascular reporting packages.

SieScape Panoramic Imaging:
Provides extended field of view images acquired with real-time, high-resolution grayscale and Power Doppler. Displays the entire length of a vessel in applications such as vein mapping.

TEQ™ Ultrasound Technology: Features single-button optimization for 2D and spectral Doppler imaging. Adjusts spectral Doppler gain, baseline, pulse-repetition frequency and dynamic range for consistent imaging and streamlined workflow.

*This feature should be utilized according to the ASE Consensus Statement, "Use of Carotid Ultrasound to Identify Subclinical Vascular Disease and Evaluate Cardiovascular Disease Risk: A Consensus Statement from the American Society of Echocardiography Carotid Intima-Media Thickness Task Force, Endorsed by the Society for Vascular Medicine".

Ergonomics

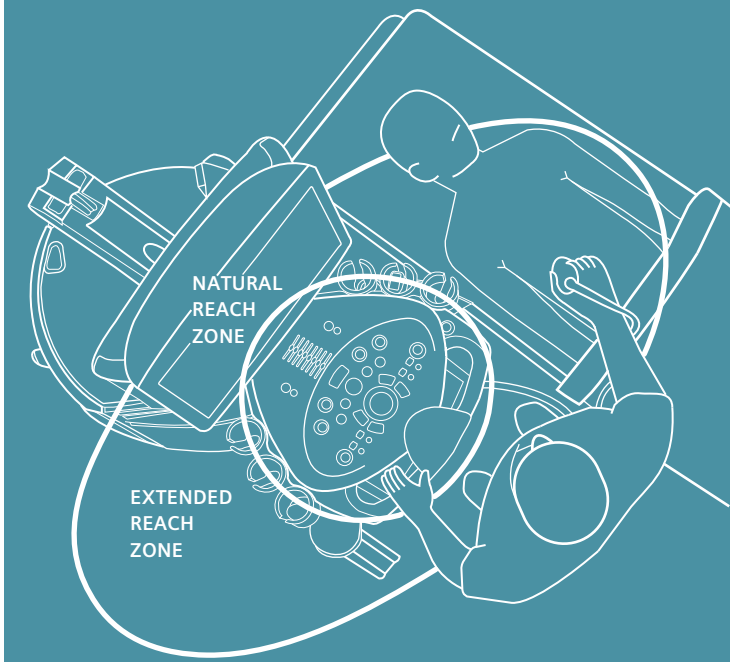
Key Benefits:

- Streamline workflow and shorten study times with Extend imaging technology, especially on difficult-to-image patients
- Optimize access and operator comfort with the Siemens' unique ErgoDynamic imaging system design
- Minimize repetitive motions required for image optimization, acquisition and management with user-centric HomeBase design

Designed Expressly for You.

The ACUSON Antares system was designed from the ground up to make day-to-day imaging stress-free and smart with natural and extended reach zones for the most frequently accessed controls. It also includes a high-resolution, 19-inch flat-panel monitor on an articulating arm and is a lightweight, portable platform. Our ErgoDynamic system design and online and offline workflow innovations free you to spend less time on repetitive tasks—and more time treating those who count on you for care.

- Natural and extended reach zones
- High-resolution, 19-inch, flat panel monitor on an articulating arm
- Lightweight, portable platform



Service & Investment Protection

Predictable Cost of Ownership. Proven Value.

The ACUSON Antares ultrasound system's proven track record of performance, with over 7,000 systems installed worldwide, gives you confidence that your investment is protected now and into the future. Lifecycle costs are predictable and clearly calculable, making precise budget planning easier for you, while Siemens' team of reliable and experienced Customer Service Engineers are there whenever you need them.

Comprehensive and Integrated Service:
Siemens offers a variety of service plans that suit the needs of different healthcare enviroments—delivering both superior support and valuable cost savings for any size clinic, practice or medical setting. Siemens' coverage options provide protection from unexpected costs as well as fast and attentive service—allowing you to stay focused on the people in your care.

Standalone clinical images may have been cropped to better visualize pathology.

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