ACUSON Sequoia C512 Echocardiography System
The ultimate in imaging
Optimum imaging for every patient
Native Patient Specific Imaging Technology

The Sequoia system represents the most advanced technology in ultrasound imaging. And each unique technology and innovation is designed to help you make more confident and accurate diagnoses, delivering excellent image quality and enhancing workflow, across a broad range of patient types and applications.

The Sequoia system is also engineered to help make your practice as efficient as possible. It is designed to be the centerpiece of your diagnostic or research practice, today, tomorrow and far into the future: a comprehensive, state-of-the-art ultrasound system without equal—and without compromise.
Every patient deserves the best.
Now, and into the future.
The ACUSON Sequoia™ ultrasound system is synonymous with unparalleled imaging performance, patient after patient, in a wide range of clinical applications. Siemens continues to lay the foundation for the future of ultrasound, reaffirming our commitment to imaging excellence and unceasing innovation that will continue to put the Sequoia system at the forefront of ultrasound performance into the 21st century.

Native™ patient specific imaging adapts both phase and amplitude information to each patient’s unique properties in real time, delivering consistently good image quality across the broad range of patients.
Targeted imaging for every patient’s needs

The ACUSON Sequoia system is designed to provide comprehensive and consistent imaging for every patient’s unique acoustic properties. The Sequoia system’s advanced technologies deliver greater image content, enhanced detail, superior contrast resolution and penetration, and excellent color Doppler sensitivity at depth. In short, the Sequoia system’s unique range of capabilities deliver better images, with less work, for more confident diagnosis.

- **fourSight™ TEE view**: the only onboard, 3D transesophageal imaging—providing the opportunity to improve patient management before, during and after surgical procedures.

- **Axius™ quantitative strain rate imaging**: is a quantitative analysis tool using DTI information providing additional assessment for myocardial mechanics.

- **Cadence™ contrast pulse sequencing technology**: the industry’s most sensitive contrast-agent imaging detection technique, utilizing both non-linear fundamental and higher order harmonics to provide enhanced diagnostic confidence.
The excellent detail resolution available with Cadence CPS imaging clearly demonstrates a left ventricular septated pseudoaneurysm filled with contrast agent.

Harmonic imaging and color Doppler sensitivity with the 4V1c transducer highlights tricuspid regurgitation and LV endocardial definition.

Left ventricular asynchrony is easily identified in this Axius OSI strain analysis with both parametric display and strain, displacement, and velocity graphs.
Unparalleled color Doppler sensitivity discriminates four separate regurgitant jets in a postoperative scan of this mitral valve prosthesis.

Intracardiac scanning of the precise deployment of an atrial occluder device for ASD closure using the AcuNav catheter.

3D fourSight™ TEE View of a bileaflet mitral valve prosthesis shows exceptional detail resolution of the valve disks, flanges, and teflon sewing ring.
Pediatrics/Fetal

- Color M-mode of transmitral forward flow and holosystolic mitral regurgitation using the 8V3 transducer displays excellent high temporal resolution.

- Fetal heart image shows excellent structural detail of the chambers, valves, and myocardium demonstrates the versatility of the 8V3 transducer.

- Neonatal pathology in this hemitruncus defect is easily detected with the excellent detail and color Doppler resolution using the 10V4 transducer and TEQ technology.
Unambiguous preoperative imaging of the left internal mammary artery (LIMA) is enabled by exceptional color and PW Doppler sensitivity.

Doppler Tissue Energy in this normal carotid anatomy enhances diagnostic information about intima and blood flow, including visualization of the superior thyroid branch.

Ulcervative plaque and interruption of the intimal surface of this carotid artery outlines and highlights the excellent detail and contrast resolution of the 15L8 transducer.
See more clearly. Diagnose more confidently.

To give every patient the care and diagnostic precision they deserve, the Sequoia system provides an unprecedented array of highly refined, specifically targeted imaging applications, all in one ultra-premium, versatile platform.

- Native™ tissue harmonic imaging: sets the industry standard for harmonic image quality, across imaging modes, including DTI, with uncompromised image quality and frame rates

- The ACUSON AcuNav™ ultrasound catheter family: provides real-time intracardiac imaging, including visualization of blood flow and of other catheters during minimally invasive cardiac procedures

a) Hanafy Lens Transducer technology: generates a narrow slice thickness in the imaging beam and even distribution of ultrasound energy, improving uniformity and focus throughout the field of view
A Comprehensive Approach
To Stress-Free Scanning

With the ACUSON Sequoia system, we take ergonomic performance and operator comfort just as seriously as we take imaging accuracy.

- Control panel with tilt/swivel monitor allows optimal ergonomic positioning providing greater operator comfort
- Improved transducer design and imaging performance reduce the hand pressure required to obtain a good image, especially on technically difficult to image patients
- The Sequoia system’s new Flat Panel Display improves readability in all lighting environments

Flat Panel Display folds forward for increased operator vision during system transport. The strong, rigid mount holds the display firmly in position, no matter how it is oriented.
**Get the most from your investment**

Life is the unique customer care solution from Siemens that helps you get the most from your investment. From the moment of your purchase, Life surrounds you with an array of programs and support that enables the continuous development of your skills, productivity, and technology. Allowing you to broaden your capabilities. Increase profitability. And take patient care to the next level.

> Helping you run at peak performance day in and day out

**Proven Outcomes** This is what Siemens is helping to deliver right now. Outcomes that result from truly efficient workflow. Outcomes that improve your bottom line. Outcomes that lead to a level of care that feels exceptional to the patient and the care provider. Proof positive of the value of integrating medical technology, IT, management consulting and services. In a way that only Siemens can.
We see a way to reduce image optimization time by up to 80%
Streamlined workflow, acquisition to archive

The ACUSON Sequoia system’s advanced technologies are designed to make image acquisition easier, reduce exam time and increase your department’s overall efficiency. Embedded DICOM advances workflow by easily integrating patient data into both local and hospital-wide networks.

- **Native™ TEQ ultrasound technology** instantly provides repeatable, consistent image quality reducing exam time, inter-operator variability, and operator hand motion
- **Proven system design** enhances workflow throughout acquisition, retrieval, and archiving

The Sequoia system’s new onboard CD/DVD drive allows far more image data to be stored on a single disc, making recording, archiving and retrieving images more efficient than ever before.
At the time of publication, the U.S. Food and Drug Administration has cleared ultrasound contrast agents only for use in LVO. Check the current regulation for the country in which you are using this system for contrast agent clearance.

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