

**SIEMENS**



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# Precision at the Speed of Life

ACUSON SC2000 Ultrasound System

Answers for life.

# The ACUSON SC2000 Ultrasound System

The healthcare payment structure is changing. You're being challenged to answer clinical questions in the most efficient and cost-effective manner while delivering quality care.

The ACUSON SC2000™ ultrasound system provides tools to meet the needs of your most challenging and complex patient demands in cardiology.

# Take Confidence to the Next Level

When it comes to cardiovascular medicine, every heartbeat, every second, every image counts. The ACUSON SC2000 ultrasound system is engineered to arm you with a complete, anatomically precise picture of your patient's heart for informed clinical decisions without missing a beat. It features sophisticated imaging tools, such as true real-time volume color Doppler and rapid, automated valve modeling to deliver the reliable, actionable knowledge you need in the moments when it matters most.



## True Volume Doppler and TEE

Simultaneous anatomy and blood flow in one 90° x 90° volume view – even in patients with arrhythmia.



## Breakthrough Valve Quantification

One-click automated aortic and mitral valve modeling and measurements within seconds from the eSie Valves™ advanced analysis package provide important clinical information for timely diagnosis and treatment.



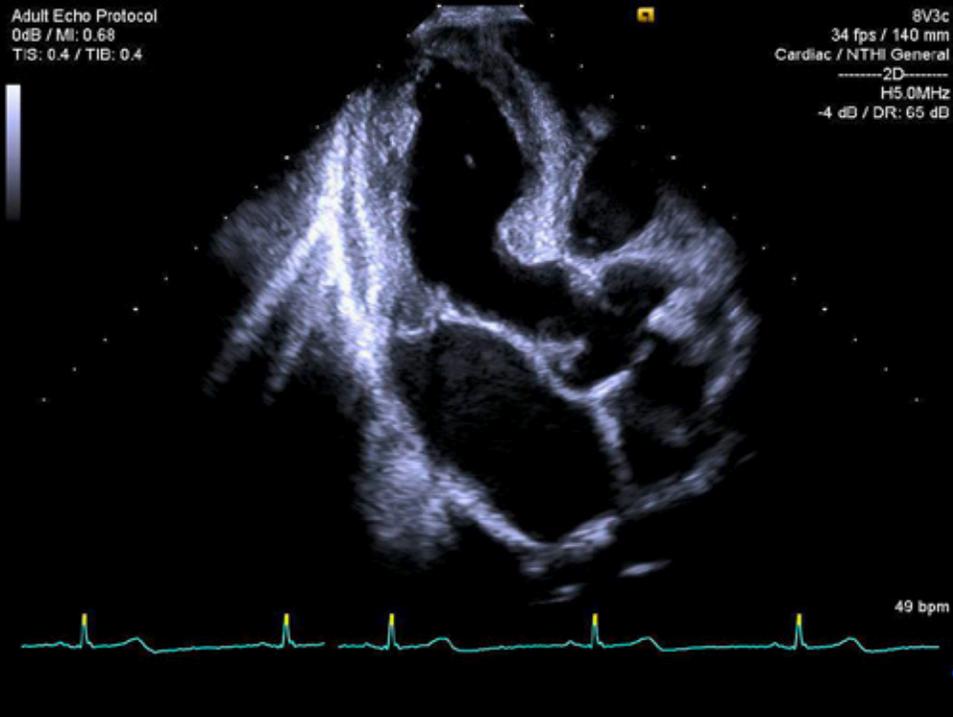
## Action-Oriented Design

Navigational guidance, automated measurements, and integrated protocols are tools that empower you to work better and more efficiently.



## Flexible Solutions

One versatile system for 2D and 3D transthoracic (TTE), transesophageal (TEE), and intracardiac echocardiography (ICE) for diverse labs.



IN Focus technology on the 8V3 transducer increases diagnostic confidence by providing superior detail resolution throughout the entire field of view.



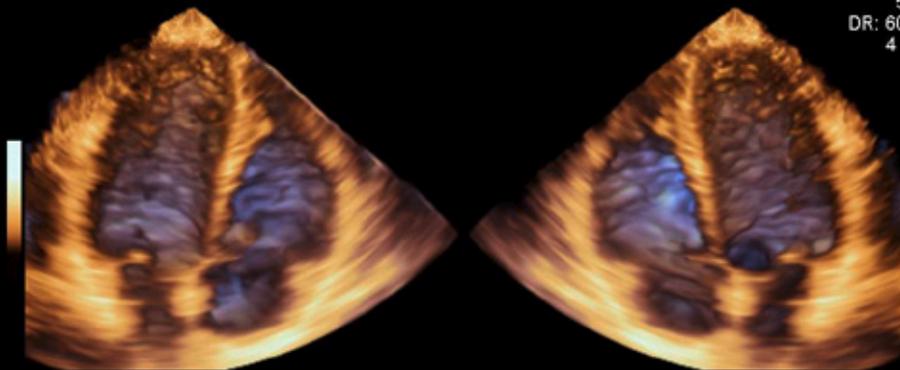
Color Doppler imaging in the carotid artery with 9L4 transducer and corresponding pulse wave doppler spectra.

## Anatomic Precision

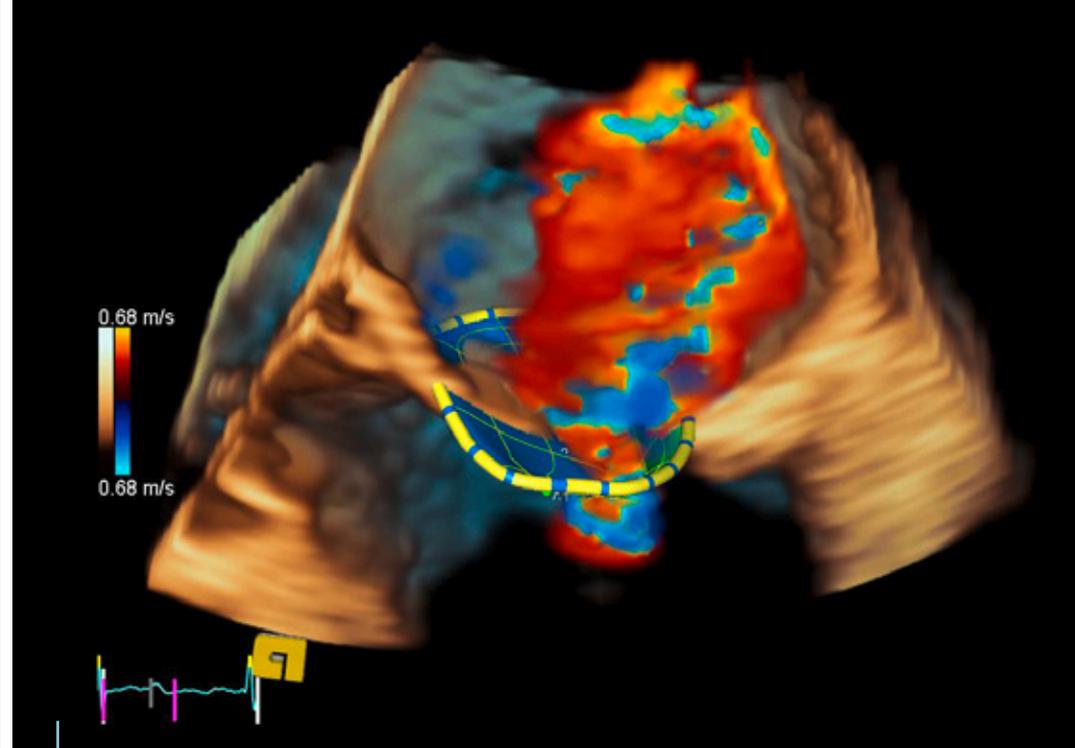
Enter a new era of clinically meaningful cardiovascular imaging with true real-time volume color Doppler. This advanced technology empowers your clinical decisions with simultaneous visualization of form, flow, and function without compromises. It delivers high frame rate 2D imaging and high volume rate 3D imaging for every heartbeat of every patient – even those with arrhythmia.

0dB / MI: 1.14 / TIS: 0.48 / TIB: 0.48  
/ Cardiac / 4Z1c

26 vps / 170 mm  
67 bpm / NTHI General  
---4D---  
2.8MHz  
5 dB  
DR: 60 dB  
4 / 27



High volume rate real-time full volume imaging of left ventricle with 4Z1c transducer.



Mitral valve anatomy and blood flow visualized with volume color Doppler using True Volume TEE transducer Z6Ms and eSie Valves analysis package.

### Improving Diagnostic Confidence

- Experience true real-time anatomy and physiology visualization in one 90°x90° volume view
- Enhance your interventions with True Volume TEE, 3D flow visualization with clinically relevant volume sizes and rates
- Access consistent, high-quality images without the hassle of manual adjustments with hands-free image optimization technology
- Enhance detail and contrast resolution throughout the entire field of view, not just a limited zone, with IN Focus coherent technology

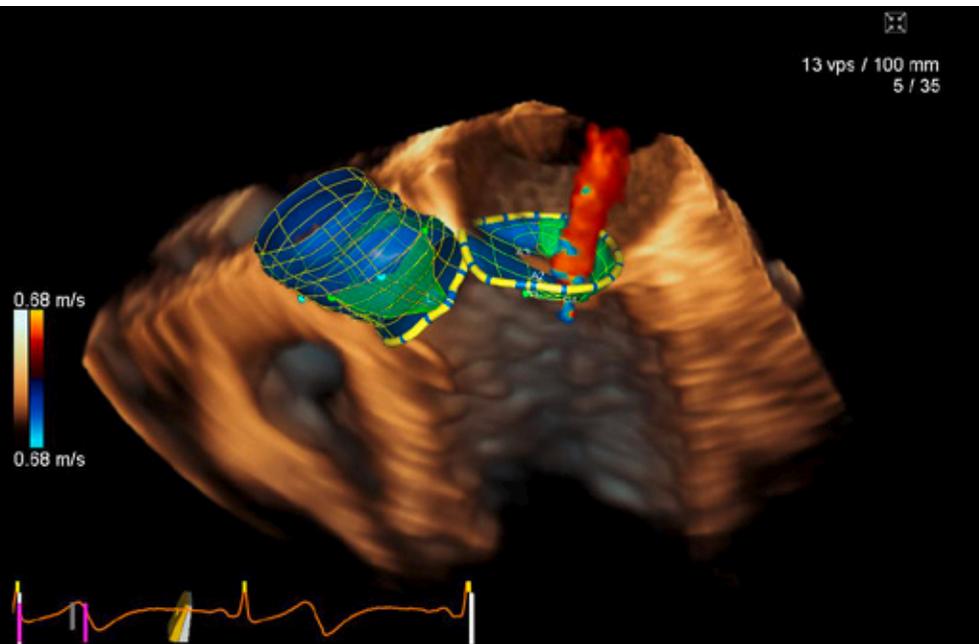
## Real-time volume color Doppler, real clinical impact.

Visualize anatomy and blood flow simultaneously. A comprehensive analysis of form, flow, and function helps drive efficient procedures and outcomes – even in patients with ECG abnormalities.

# Accelerated Analysis

Harness the power of quantitative data within seconds, not minutes, with one-click automated aortic and mitral valve modeling, complete with a wide range of measurements. The ACUSON SC2000 system empowers your surgical workflow with automated analysis tools, navigational guidance for trans-septal punctures, and easy access to surgical views. It also includes a full suite of cardiology apps to deliver the information you need, as it's needed.

Both aortic and mitral valves modeled and visualized simultaneously using eSie Valves package and True Volume TEE transducer Z6Ms.



2D scanning with Z6Ms transducer utilizing Septal Guide for trans-septal puncture during a procedure.



## Efficient and Accurate

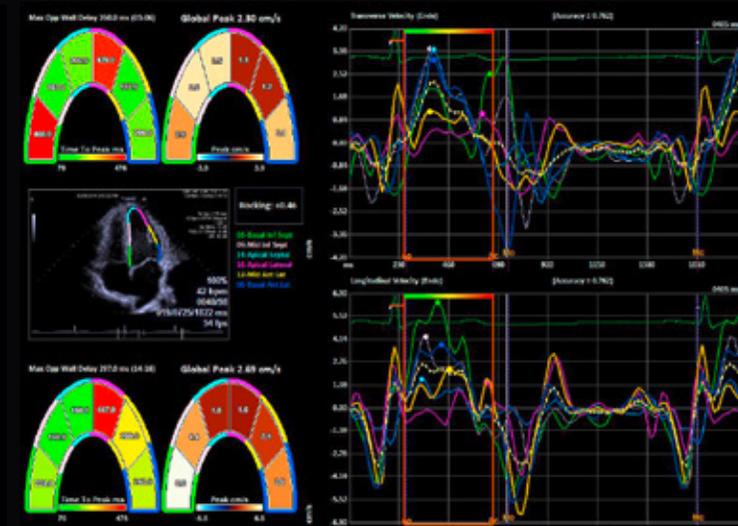
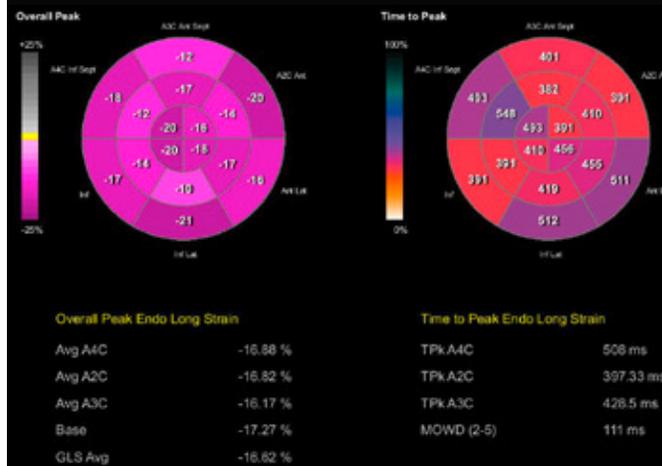
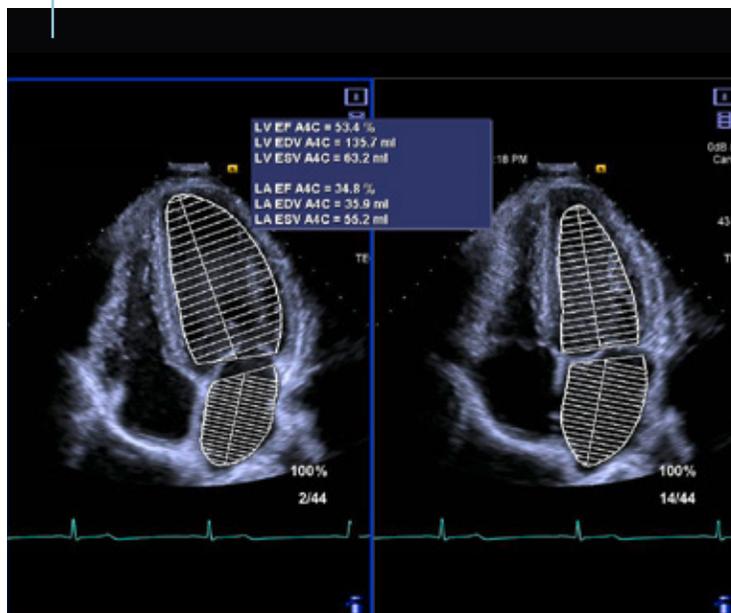
- Increase procedural confidence with static and dynamic models of valve anatomy and function within seconds – even in the OR
- Access valvular details and measurements such as leaflet lengths, diameters, intertrigonal distance, and many more
- Achieve easy, accurate, and reproducible ventricular quantification from ejection fraction (EF) to strain and strain rate
- Experience easy, efficient acquisition with flexible protocols, right-click access to measurements, and home-base design

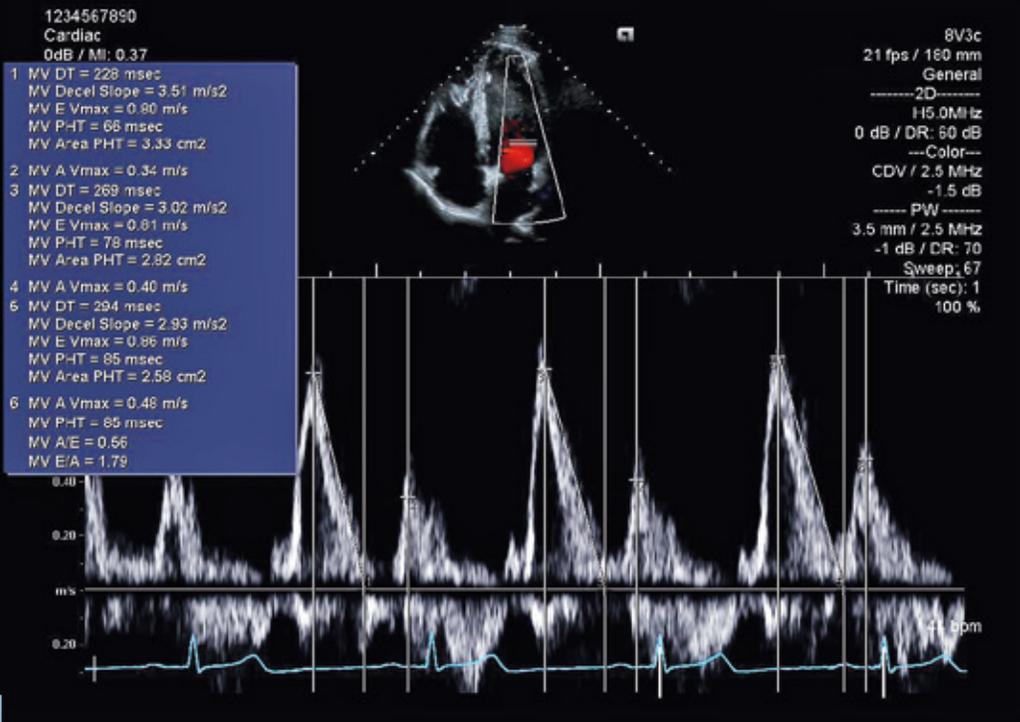
## Rapid quantification, faster understanding.

The ACUSON SC2000 system delivers rapid, reliable data to guide interventions including transcatheter aortic valve replacement (TAVR), mitral valve repair and MitraClip® procedures.

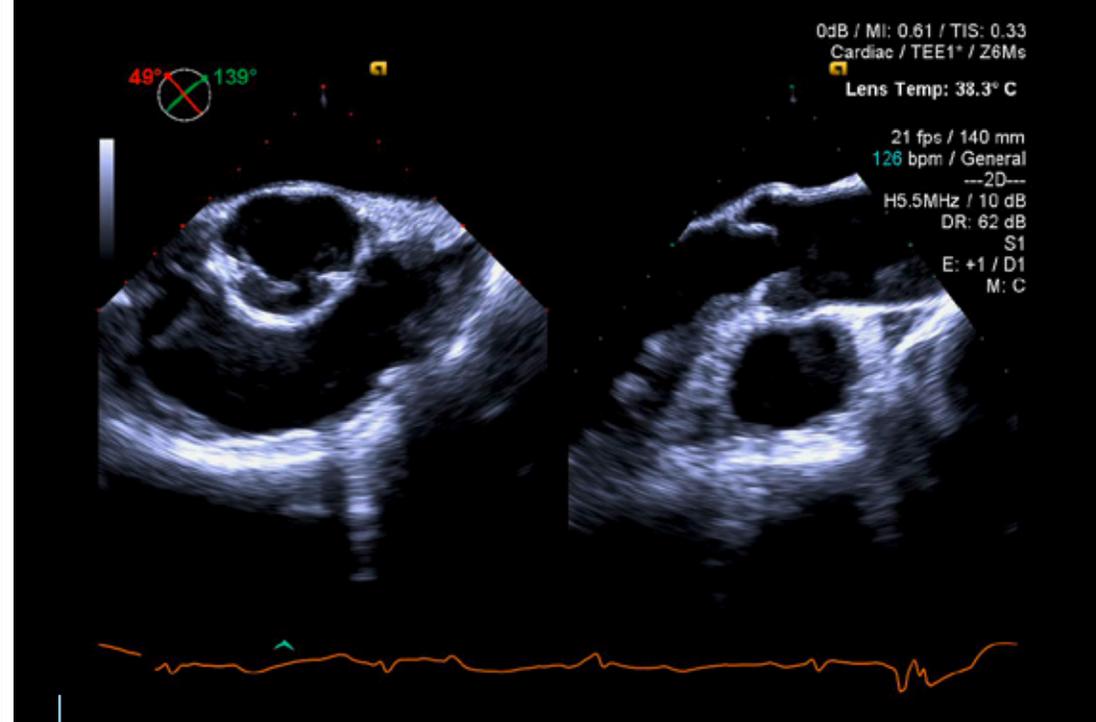
Transthoracic apical four chamber obtained with 4V1c transducer and measured with eSie Left Heart™ measurement package.

Comprehensive LV mechanics analysis performed with eSie VVI™ velocity vector imaging technology with Bullseye display.





Spectral Doppler waveform of mitral inflow measured with eSie Measure™ workflow acceleration package.



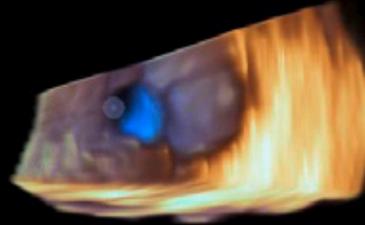
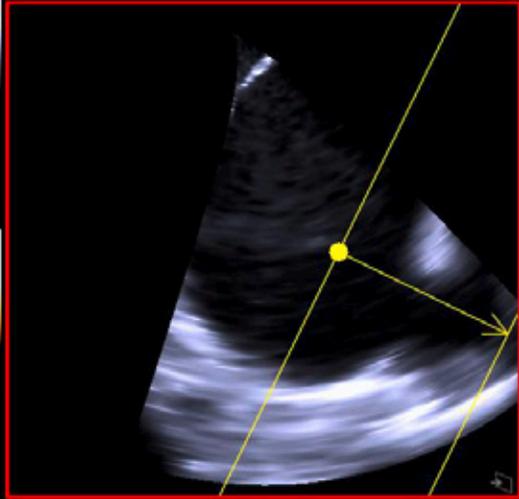
Aortic valve and root visualized Bi-Plane+ feature available with True Volume TEE transducer, Z6Ms.

## Engineered for Action

From quick-scan protocols to an intuitive user interface, every aspect of the ACUSON SC2000 system is designed to empower rapid, insight-based action. This premier cardiac system delivers easy acquisition, manipulation, navigation, and quantification to increase efficiency and reliability without disrupting your workflow.

0dB / MI: 1.0  
TIS: 0.4 / TIB: 0.4

AcuNav V  
47 vps 90 mm  
IntraCardiac® General  
---4D---  
6.0MHz  
-4 dB / DR: 45 dB  
86 / 94  
100 %



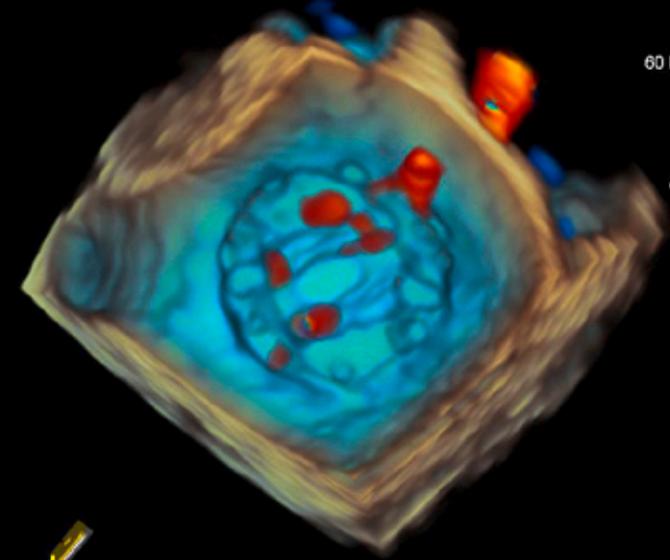
Volume intracardiac echocardiography with ACUSON AcuNav™ V ultrasound catheter showing left atrial appendage.

0dB / MI: 1.08 / TIS: 0.39 / TIB: 0.39  
/ TEE New\* / Z6Ms

345°

0.68 m/s  
0.68 m/s

14 vps  
60 bpm / General  
---4D---  
Gen  
-12 dB  
DR: 65 dB  
---Color---  
CDV / 3.3MHz  
-1.5 dB  
5 / 16



3D/4D imaging with True Volume TEE transducer, Z6Ms showing paravalvular leak using real-time volume color Doppler imaging.

### Live Guidance Matters

- Reduce variability with automated and one-click measurements for 2D, 3D, M-mode, and spectral Doppler
- Support streamlined procedures with simple true volume color Doppler manipulation and navigation when it matters most
- Increase ease of use with ergonomic innovations from easy protocol acquisition to one-click measurements
- Meet diverse clinical demands with one solution for complete 2D and 3D TTE, TEE, and ICE

## Streamlined exams, greater productivity.

Discover ease of acquisition with a system that's designed to work logically within your clinical environment. With proven transducers – including a fully-shielded TEE probe for reduced interference – and automated applications, the ACUSON SC2000 system helps fuel faster, more confident operation.

# Clinical Versatility

The ACUSON SC2000 system delivers extraordinary performance across a wide variety of cardiologic environments including cardiac anesthesiology, interventional cardiology, surgery, and general cardiology. With three customizable configurations backed by Siemens service, training, and investment protection, you can choose the solution that best fits your clinical demands and even upgrade your existing system as your needs evolve.

## PRIME True Volume TEE Solution

Game-changing true volume TEE transducer for high-frame rate volume color Doppler and 3D aortic and mitral valve models and measurements for comprehensive, actionable analysis

## 2D Workflow Solution

Superior imaging architecture, automated measurements, and streamlined workflow packaged for consistent high quality imaging and productivity

## 3D Workflow Solution

Exceptional volume imaging and advanced quantification, including one-click automated measurements in 2D and 3D, for more information from every beat

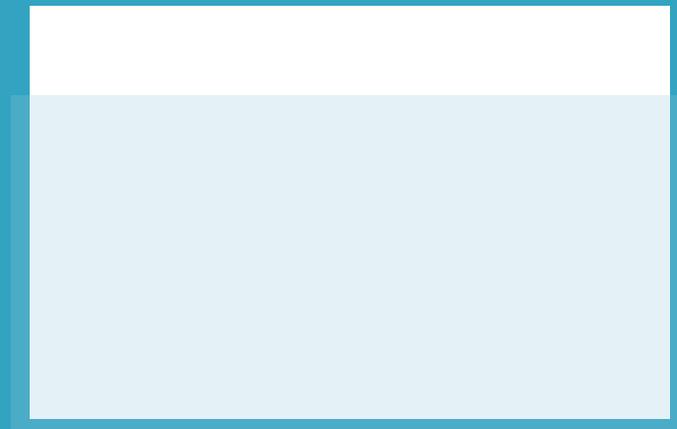
## System features

Features	2D	3D	PRIME
4v1c Transducer	●	●	●
Native TEQ™ Ultrasound Technology*	●	●	●
eSie Left Heart™ Package	●	●	●
eSieMeasure™ Package	●	●	●
4Z1c Transducer		●	●
eSie LVA™ Volume LV Analysis		●	●
eSie PISA™ Volume Analysis		●	●
True Volume TEE Transducer (Z6MS)			●
eSie Valves™ Package			●

● Standard

\* Available only in 2D imaging

To fully experience the ACUSON SC2000 system, contact your local Siemens representative to schedule a demonstration.



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The products/features mentioned in this document may not be commercially available in all countries. Due to regulatory reasons their future availability cannot be guaranteed. Please contact your local Siemens organization for further details.

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

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**Global Siemens Headquarters**

Siemens AG  
Wittelsbacherplatz 2  
80333 Muenchen  
Germany

**Global Siemens Healthcare  
Headquarters**

Siemens Healthcare GmbH  
Henkestraße 127  
91052 Erlangen  
Germany  
Phone: +49 9131 84-0  
[siemens.com/healthcare](http://siemens.com/healthcare)

**Legal Manufacturer**

Siemens Medical Solutions USA, Inc.  
Ultrasound  
685 East Middlefield Road  
Mountain View, CA 94043  
USA  
Phone: +1-888-826-9702  
[siemens.com/ultrasound](http://siemens.com/ultrasound)