



SIEMENS



The image shows a medical control room with several large monitors. The top-left monitor displays a 3D reconstruction of a heart with various colored regions. The top-middle monitor shows a grayscale angiogram of a coronary artery. The top-right monitor shows a close-up of a catheter or wire. The bottom-left monitor displays an ECG waveform with vital signs: 60 bpm, 127/69 mmHg, 135/6 mmHg, 120/65 mmHg, and 92% SpO2. The bottom-middle monitor shows a cross-sectional view of a vessel with a blue arrow pointing to a specific area. The bottom-right monitor displays a list of data or a software interface. The Siemens logo is in the top left corner.

# Combine the Best of Both Worlds

Master structural heart disease therapy with a top-notch  
multimodality solution

[siemens.com/angiography](https://www.siemens.com/angiography)





## When expert teamwork is a must

Treatment options for structural heart disease (SHD) are developing with breathtaking speed. However, the multidisciplinary and multi-modality approach of these new interventions puts high demands on cardiac teams and their imaging systems, calling for extreme precision and seamless cooperation. You can master these challenges with a solution that enables smooth teamwork and provides the latest advances in both ultrasound and angiography.

# ACUSON SC2000 PRIME

A close-up photograph of the ACUSON SC2000 PRIME TEE transducer. The device is white and grey, with a long, thin probe extending upwards. A control knob with a gear-like edge is visible on the side. The background is a solid dark blue color.

SHD procedures not just demand easy-to-read information but also fast, actionable understanding based on advanced imaging. The ACUSON SC2000™ PRIME ultrasound system provides everything you need to make confident, well-informed decisions without missing a beat. This versatile platform offers one solution for 2D and 3D TTE, TEE, and ICE imaging – and its revolutionary new transducer enables true volume TEE.

#### Real-time, full-volume imaging

Advanced 3D TEE and real-time volume color Doppler allow visualization of form, function, and flow in one volume view – without compromises. Even in patients with arrhythmias, these technological innovations arm you with a complete picture.

#### Accelerated analysis

ACUSON SC2000 PRIME features the eSieValves™ package for fast, automated, and comprehensive analysis of valvular anatomy and function, including automated measurements of the annulus and leaflets.

#### Engineered for action

With its innovative technology, ACUSON SC2000 PRIME is designed for easy acquisition, manipulation, navigation, and quantification. The fully shielded TEE transducer and improved thermal management enable streamlined and uninterrupted procedures.

## A perfect fit with all Artis systems

The Artis zeego is the preferred partner system in hybrid cath labs and complex SHD procedures, however you can also combine ACUSON SC2000 PRIME with all other Artis systems – Artis one, Artis zee, Artis Q, and Artis Q.zen – for excellent support during cardiac interventions.

# Artis zeego

Artis zeego

With the growing complexity of SHD procedures, you need an angiographic solution that meets today's demands, providing you with seamless workflows and extreme precision with high-quality 3D imaging. With its unique multi-axis robotic technology and advanced imaging tools, Artis zeego lets you master the challenges of hybrid interventions with confidence and ease.

## Full positioning flexibility

The unmatched flexibility of Artis zeego ensures optimal integration of angiographic imaging into SHD workflows allowing optimal patient access and ample space for echo-cardiography and anesthesia. The floor-mounted design ensures that interference of the C-arm with the laminar airflow is minimized and the highest hygienic standards are supported.

## New perspectives with 3D

*syngo* DynaCT Cardiac has revolutionized cardiac imaging with rotational angiography that provides CT-like images of the heart. The high-quality 3D volumes facilitate precise anatomic assessment, procedure planning, and completion control – and have therefore been recommended by the ACC and STS for complex procedures like TAVI.\*

## Effective device guidance

With an overlay of live fluoroscopy and matching 3D volumes acquired either pre- or intra-procedurally, *syngo* 3D Roadmap effectively supports interventions such as TAVI or LAA occlusion and allows a reduction of contrast media, dose, and examination time.

## Enhanced valve positioning

*syngo* Aortic Valve Guidance provides an automatic segmentation of the aortic root, indication of anatomical landmarks, and the optimal orthogonal view plane in less than 30 seconds – improving workflow and accuracy in valve implementation procedures.

\* Holmes, David R. Jr. and Mack, Michael J.;  
*Transcatheter Valve Therapy: A Professional Society Overview from the American College of Cardiology Foundation and The Society of Thoracic Surgeons*;  
*Ann Thorac Surg* 2011;92:380-389



# Take confidence to the next level

Revolutionize your SHD treatment by combining Artis angiography systems with the ACUSON SC2000 PRIME ultrasound system. You'll experience a new level of precision and ease in treatment planning, device guidance, and completion control.

## Advanced 3D TEE

The new true volume TEE transducer with 90° x 90° real-time imaging provides anatomically precise information.

## Precise flow information

Real-time volume color Doppler allows accurate, continuous, high-volume rate blood flow visualization, beat by beat.

## Automated analysis package

eSieValves allows automated valve modeling for a comprehensive understanding of mitral and aortic anatomy within seconds.

## Fully-shielded transducer tip

Extremely low interference – for example from electrosurgery systems – enables high-quality imaging in 2D and 3D at any time.

## Imaging without overheating

The transducer's innovative thermal management prevents overheating – for uninterrupted imaging even in color Doppler mode.





### The whole picture right in front of your eyes

Artis Large Display gives the full picture from all modalities on one 60-inch monitor. The layout from up to 24 image sources can be selected at the tableside.

### High-performance imaging chain

Artis systems offer a choice of unparalleled imaging technologies, including Artis Q's powerful GIGALIX X-ray tube and HDR detector with true 16-bit imaging chain.

### Unmatched flexibility and 3D imaging

The robotic-assisted C-arm enables your team to perform the widest range of procedures with unlimited patient access and an unprecedented level of in-room 3D imaging capabilities.

### Integrated hemodynamic recording and information system

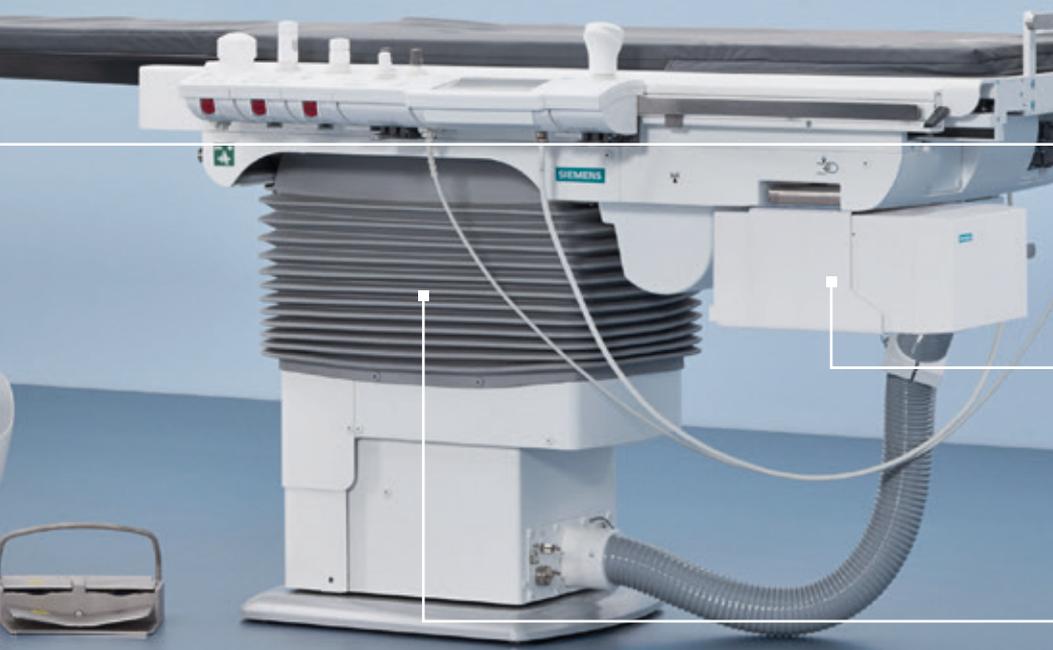
The Sensis amplifier fits seamlessly into the Artis table – for free patient access and easy cleaning.

### Dedicated OR table

The Artis OR table with floating table-top and cradle function is particularly well suited for cardiac procedures. Artis zeego and selected ceiling-mounted Artis systems are also fully compatible with Maquet Magnus and Trumpf TruSystem 7500 tables.

### CARE+CLEAR

Standard with every Artis system, the CARE tools optimize dose during procedures while CLEAR supports confident decisions with improved image contrast and sharpness.



On account of certain regional limitations of sales rights and service availability, we cannot guarantee that all products included in this brochure are available throughout the Siemens sales organization worldwide. Availability and packaging may vary by country and are subject to change without prior notice. Some/All of the features and products described herein may not be available in the United States or other countries.

The information in this document contains general technical descriptions of specifications and options as well as standard and optional features that do not always have to be present in individual cases. Siemens reserves the right to modify the design, packaging, specifications and options described herein without prior notice. Please contact your local Siemens sales representative for the most current information. Caution: Federal law restricts this device to sale by or on the order of a physician.

The statements by Siemens' customers described herein are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption) there can be no guarantee that other customers will achieve the same results.

ACUSON SC2000 and eSie Valves are trademarks of Siemens Medical Solutions USA, Inc.

### **Siemens Healthcare Headquarters**

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

Bestell-Nr. A91AX-01582-02C1-7600 | Printed in Germany | CG AX 2934 10151. | © Siemens Healthcare GmbH, 2015

**[siemens.com/healthcare](http://siemens.com/healthcare)**