

REQUESTING SERVICE: MEDICINE - CARDIOLOGY  
SHIP TO: WAREHOUSE  
V.A. Medical Center  
CHIEF, A&MMS (90D)  
UNIV & WOODLAND  
PHILADELPHIA, PA 19104

REQUISITION: 642-B90028

**Qty**

**Item Description**

1

**SC2000, BASE CONFIGURATION**

The ACUSON SC2000 PRIME ultrasound system offers excellent image quality for both 2D and 3D without compromise and helps increase productivity with one-click knowledge-based measurements, automated protocols and navigational tools. It is the versatile system for your cardiovascular needs, providing the precision and speed clinicians require today.

Premium Standard Features

- \* PRIME Configuration
- \* IN Focus Coherent Technology
- \* Native TEQ dynamic ultrasound technology (NTEQ)
- \* Pediatric Imaging Package
- \* eSie Left Heart package
- \* eSieScan Workflow Protocols
- \* Wireless Connectivity
- \* Integrated Gel Warmer

Premium Ultrasound System:

- \* Large 21-inch high definition LCD display for easy viewing
- \* Floating control panel with lock and Home Base design
- \* 2 quick access USB ports on control panel, 3 USB ports on the back of the system and 1 USB port on the bottom right
- \* Laser trackball
- \* Ergonomic Micro-Pinless connector ports
- \* 4 wheel swivel with high-end bearings for improved mobility
- \* Rear Handle
- \* Ambient, context sensitive lighting
- \* 2 Terabyte hard drive

System Security:

- \* McAfee(r) embedded security solution

1

**SC2000, 5.1, OPERATING SYS, ENGLISH**

1

**SC2000 English keyboard**

Qty	Item Description
1	<b>115V Power Supply SC2000</b>
1	<b>NTSC Video Interface SC2000</b>
1	<p data-bbox="399 483 721 512"><b>SC2000, 2D TTE BUNDLE</b></p> <p data-bbox="399 518 1292 569">The bundle provides additional feature-rich 2D technologies and transducers to achieve high quality exams by reducing measurement variability and improve workflow efficiency.</p> <p data-bbox="399 602 626 632">It contains the following:</p> <ul data-bbox="399 661 854 743" style="list-style-type: none"> <li>* 4V1c Transthoracic Transducer</li> <li>* eSie Measure workflow acceleration package</li> <li>* eSie Stress Echo</li> </ul>
1	<p data-bbox="399 760 878 789"><b>SC2000 Adv Vascular Imaging Bundle</b></p> <p data-bbox="399 795 1292 846">The bundle provides additional feature-rich peripheral and cerebrovascular imaging technologies and transducers to achieve high quality vascular exams.</p> <p data-bbox="399 879 626 909">It contains the following:</p> <ul data-bbox="399 938 810 1020" style="list-style-type: none"> <li>* 9L4 Vascular Transducer</li> <li>* Advanced SieClear spatial compounding</li> <li>* Vascular Imaging Package</li> </ul>
1	<p data-bbox="399 1037 716 1066"><b>SC2000, 2D ICE BUNDLE</b></p> <p data-bbox="399 1073 1292 1148">This bundle enables use of the ACUSON AcuNav ultrasound catheters (8F and 10F) and SoundStar(r) catheter for Intracardiac Echo (ICE) procedures via the SwiftLink catheter connector and the CARTOSOUND(r) communication package.</p> <p data-bbox="399 1182 597 1211">The bundle includes:</p> <ul data-bbox="399 1241 984 1325" style="list-style-type: none"> <li>* 2D SwiftLink Catheter Connector</li> <li>* CARTOSOUND(r) Communication Package</li> <li>* Box of sterile, single-use covers for the SwiftLink connector</li> </ul>
	Note: ACUSON AcuNav and SoundStar(r) ultrasound catheters sold separately.
1	<p data-bbox="399 1436 818 1465"><b>SC2000 Wireless Config, Non-EU</b></p> <p data-bbox="399 1472 1292 1522">This configuration provides the required hardware and software to abide by the wireless protocols for countries outside the European Union.</p>
1	<p data-bbox="399 1528 867 1558"><b>ECG Leads, Respirometer, USA Type</b></p> <p data-bbox="399 1564 1292 1619">The USA Type ECG Leads will work with all new ACUSON SC2000 ultrasound systems 5.0 and upgraded systems at 5.0 SW that have also upgraded the physio module.</p>
1	<p data-bbox="399 1623 859 1652"><b>Aux Cable, stress echo/ext monitors</b></p> <p data-bbox="399 1659 1292 1740">The Aux Cable, Stress Echo, External Monitor Cables will work with all new ACUSON SC2000(tm) 5.0 ultrasound systems and upgraded 5.0 systems that have also upgraded the physio module.</p>
1	<p data-bbox="399 1747 630 1776"><b>SC2000 Clarify VE</b></p> <p data-bbox="399 1782 1292 1938">Clarify(tm) Vascular Enhancement (VE) technology uniquely utilizes flow information to enhance B-mode imaging. The Clarify VE technology option reduces slice thickness artifact in 2D throughout the field of view and reduces noise within macro- and micro-vascular structures. The reduction in artifact further enhances tissue characterization and contrast resolution, improves boundary detection between tissues and clearly delineates vessel walls. Clarify VE technology is a post-scan conversion process that applies a mixing and processing</p>

Qty	Item Description
1	<p>algorithm to received data pixel-by-pixel. The advantages of Clarify VE technology are:</p> <ul style="list-style-type: none"> <li>- Refines vascularity by reducing slice thickness and reverberation artifacts</li> <li>- Provides pixel-by-pixel, real-time, adaptive enhancement</li> <li>- Selectively enhances macro- and micro-vascularity</li> </ul>
1	<p><b>Aux CW Transducer</b> 2.0 MHz Non-imaging Doppler transducer for transthoracic adult and pediatric continuous wave spectral Doppler echocardiography.</p>
1	<p><b>9L4 Vascular Transducer</b> Linear array transducer for peripheral and cerebrovascular imaging.</p>
1	<b>SC2000, 5.1, OPERATING INSTR, ENG</b>
1	<b>SC2000, 5.1, PAPER MANUAL, ENGLISH</b>
2	<b>Manual AcuNav US Catheter English</b>
1	<b>SC2000, 5.1, CARDIAC BASE SYSTEM</b>
1	<p><b>Initial onsite training 24 hrs-FMV</b> Up to (24) hours of on-site clinical education training, scheduled consecutively (Monday - Friday) during standard business hours for a maximum of (4) imaging professionals. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.</p>
1	<p><b>ACUSON SC2000 System Class Complimentary Biomed Training</b> This educational offering includes system training tuition for 1 clinical engineering professional on the ACUSON SC2000 system and the syngo multimodality workstation as applicable. The training curriculum depends on and is limited to the system purchased and may include multiple courses including classroom training in USA or an international site, and/or virtual and web-based training. Additional modality basics training may be required as a prerequisite to these courses and must be purchased separately. This system training includes a 15% discount. Travel and lodging are not included. This educational offering must be completed by the later of (12) months from purchase or install end date; if training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund. This forfeiture does not apply to Federal government agencies.</p>

Offset Part 11289497 SC2000, 5.1, OPERATING INSTR, ENG (

Offset Part 10044202 AcuNav US Catheter English 2 =

Offset ACUSON SC2000 Complimentary Biomed Training

# Detailed Technical Specifications

## Description

The system mainframe comes standard with excellent 2D & 3D imaging capabilities to provide the ideal clinically relevant images for all your adult and pediatric exams.

From a quantification and workflow perspective the world-class automation and knowledge-based measurements provides the ability to increase exam quality by reducing variability while shortening exam time for your routine echo and your echo-guided procedures.

### PRIME Configuration

Provides the premier software and hardware to support all standard imaging and advanced applications related to 2D and 3D imaging, along with true volume TEE imaging capabilities.

### IN Focus Coherent Technology

IN Focus provides the next generation real-time Coherent Image Formation technique that provides dynamic transmit focus at all depths for excellent 2D and volume imaging without user intervention. This technique allows each transducer to reach its highest beamforming potential in terms of detail and contrast resolution without compromise to frame rate.

### Native TEQ dynamic ultrasound technology (NTEQ)

NTEQ dynamic ultrasound technology offers a sophisticated solution for continuous 2D gain optimization capabilities. NTEQ dynamic ultrasound technology significantly reduces time spent optimizing imaging performance, while improving the consistency and quality of diagnostic exams.

### Pediatric Imaging package

The Pediatric Imaging package enables transthoracic pediatric imaging and a comprehensive calculation package.

### eSie Left Heart measurement package

eSie Left Heart package utilizes knowledge-based technologies specifically designed to identify and measure contours on a typical transthoracic exam of left ventricle and left atrium in an automated manner. The algorithms are trained on a large image database annotated by clinical experts and provide quick and easy measurements of EDV, ESV and EF for both LV and LA. The application is trained on apical 4CH and 2CH transthoracic 2D echo views. eSie Left Heart enables improvement in efficiency and workflow in a routine clinical setting.

### eSieScan workflow protocols

eSieScan protocols guide the operator through the clinical workflow steps required to complete a variety of exams. Using protocol-driven workflow ensures a consistent, repeatable process with reduced keystrokes, thus leading to more accurate outcomes. With the ability to customize the protocol to a disease state, physician preference, or quality requirements, a user can structure the protocol to meet the lab's needs.

Workflow protocols include automated features for:

- Automatic mode and measurement activation (4D, color Doppler, spectral Doppler, Thin Volume or 2D, M-mode)
- Transducer switching (necessary to go from 2D imaging to 4D imaging)
- Adult and Pediatric Echo imaging

### 4V1c Transthoracic Transducer

A vector wide-view array transducer for transthoracic adult, pediatric, fetal and vascular imaging. Supports the following imaging modes:

- 2D
- Color Doppler (CDV, DTV, DTE)

## Description

- M-mode
- Spectral Doppler (PW, CW, PW DTI)
- LVO contrast

### eSie Measure workflow acceleration package

eSie Measure package is the first innovative application that provides semi-automated measurements for routine echo exams, improving efficiency and consistency for end users. Based on a knowledge base of over a thousand expert-traced datasets, the eSie Measure package improves accuracy and reproducibility with 118 one-click measurements. With the push of a button, the eSie Measure package semi-automatically generates reliable measurement data for 2D, M-mode and spectral Doppler, increasing consistency of each exam, while reducing key strokes.

### eSie Stress Echo

eSie Stress Echo application provides tools for ECG-triggered acquisition, display, selection, comparison, evaluation and archiving of multiple cardiac loops during various stages of a Stress Echo examination.

In addition, the 2D Stress Echo application has the ability to:

- Configure User-defined View and Stage names.
- Add a User-defined Stage during a Stress Echo protocol
- Status Grid display for the number of acquired and selected views for each stage.
- Resize the Capture ROI (region of interest).
- Capture continuously for up to 750 clips.

9L4 transducer supports the following features:

### B-mode Imaging

- Three harmonic frequencies: H6.5, H8.0, H9.0 MHz
- One fundamental frequency: 5.0 MHz

### Color Doppler Imaging

- Color Doppler Velocity (CDV)
  - Three frequencies: 4.0, 5.0, 6.5 MHz
- Color Doppler Energy (CDE)

### Spectral Doppler

- PW Spectral Doppler
  - Two frequencies: 3.5, 4.0 MHz
  - HPRF
- PW Doppler Tissue Imaging (DTI)
  - Two frequencies: 3.5, 5.0 MHz

### Advanced SieClear Spatial Compounding (ASC)

Advanced SieClear spatial compounding offers image quality with unrivaled detail and contrast resolution. Advanced SieClear compounding is a real-time technique which applies multiple lines of sight. The combination of multiple images with different steering angles results in speckle reduction and enhanced contrast resolution. Available on the 9L4 transducer and operates on all available frequencies.

### Vascular Imaging Package

The Vascular Imaging Package supports vascular imaging and measurements for the following transducers and exams:

- 4V1c: aorta-iliac; aorta renal
- 9L4: carotid; peripheral vascular (arterial, venous)

<b>Description</b>
<ul style="list-style-type: none"><li>• 6C1 HD: abdominal vascular</li></ul>
<p>2D SwiftLink Catheter Connector SwiftLink catheter connector is the physical connection from the ACUSON AcuNav ultrasound catheters (8F and 10F) and SoundStar® catheter to the ACUSON SC2000 PRIME system enabling imaging for Intracardiac Echo (ICE) procedures.</p> <p>CARTOSOUND® Communication Package CARTOSOUND® enables Ethernet communication between the ACUSON SC2000 PRIME ultrasound system and the Biosense Webster Carto system with the CARTOSOUND® Module.</p>
<p>The aux cable will work for stress echo as well as for connecting the external monitor signal to the system.</p>
<p>Clarify™ Vascular Enhancement (VE) technology is an innovative 2D imaging mode that is compatible with THI and TEQ™ ultrasound technology. Multiple Clarify VE technology levels are available to optimize contrast resolution and definition of both tissue and vessel walls. The Clarify VE technology imaging parameters can be saved within user-defined customized presets.</p>