

657-B60041  
VA ST LOUIS, MO

## ACUSON SC2000 ultrasound system

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<b>ACUSON SC2000 Mainframe</b>	<p>The system mainframe comes standard with eSieScan™ Workflow Protocols, Cardiac Calculation Package, Physiologic Module, imaging enhancement technologies including Native™ Tissue Harmonic Imaging (NTHI), and IN Focus Technology, the next generation Coherent Image Formation technique.</p> <p>eSieScan Workflow Protocols: eSieScan workflow protocols guide the operator through the clinical workflow steps required to complete an exam. 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, a user can structure the protocol to meet the lab's needs.</p> <p>Workflow protocols include automated features for:</p> <ul style="list-style-type: none"><li>- Automatic mode and measurement activation (4D, color Doppler, spectral Doppler, Thin Volume or 2D, M-mode)</li><li>- Transducer switching (necessary to go from 2D imaging to 4D imaging)</li><li>- Available for Adult and Pediatric Echo</li></ul> <p>IN Focus Technology: IN Focus Technology is the next generation real-time Coherent Image Formation technique that provides dynamic transmit focus at all depths for superior 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.</p> <p>Unlike conventional beamforming where transmit is focused at a single depth within a scan, or focal zone, IN Focus Technology builds up transmit focusing at every point in the image for the entire field of view by combining information from overlapping transmit events. This is equivalent to hundreds of transmit focal zones from near to far field. Using the power of up to 64 parallel receive beams and the unique coherent imageformer engine, IN Focus Technology gathers and processes enough unique information from each firing to retrospectively achieve two-way focusing at all depths without any user intervention. In addition to delivering superior image quality, IN Focus Technology also improves user workflow by eliminating the need for continuous focal point adjustment as in conventional imaging.</p> <p>The ACUSON SC2000 system mainframe also includes the DICOM package with all classes as defined in the DICOM conformance statement such as DICOM Structured Report, DICOM Query/Retrieve, DICOM Store/Print, and Modality Worklist.</p>
<b>SC2000 4.0 3D SW</b>	The Release 4.0 software includes Microsoft Windows 8 as the operating system.
<b>SC2000 Adv ICE Pkg</b>	<p>The SC2000 Adv ICE option includes:</p> <ul style="list-style-type: none"><li>- 3D Swiftlink V Adapter, SC2000</li><li>- 2D Swiftlink Adapter, SC2000</li><li>- Box of sterile, single-use covers for the SwiftLink V and SwiftLink connectors</li><li>- User manual supplement (CD-ROM Format)</li></ul> <p>Note: ACUSON AcuNav 2D ultrasound catheters sold separately.</p>

/ Product	Description
<b>SC2000 Dynamic NTEQ Ultrasound Tech</b>	<p><b>Native TEQ™ ultrasound technology for 2D imaging</b>  Native TEQ™ ultrasound technology for 2D imaging enhances uniformity of the image, suppresses noise, improves plunkability, and provides consistent image optimization. In 2D, this pre-processing technology monitors images for subtle tissue and interface changes distinguishing between soft tissue, artifacts, noise and specular reflectors. An overall and depth related gain optimization is performed in a continuous manner without the need for user input</p> <p>The user may select Semi-dynamic and Dynamic update options which are exam presettable. 2D NTEQ technology is available for all exam types and transducers (Note: Not available in 4D imaging on the 4Z1c transducer).</p>
<b>Stress Echo Ext/Adapter Cables</b>	<p>Fifteen foot ECG cable with adapters for connecting external ECG sources.</p>
<b>SC2000 3D TEE Valve Quant Pkg (Optional)</b>	<p>Z6Ms transducer supports the following features:</p> <ul style="list-style-type: none"> <li>- Enables high volume rate B-mode and volume color Doppler imaging capabilities</li> <li>- Provides flexible Bi-Plane imaging capability</li> <li>- Enables 90° by 90° volume imaging with volume color Doppler</li> <li>- Supports Bi-Plane, 2D, color Doppler (CDV, DTV), spectral Doppler (PW, PW DTI, CW), M-mode, color M-mode, and full volume imaging in B-mode and color Doppler</li> <li>- Number of elements: 2304 elements</li> <li>- Ergonomic design with one hand control and programmable buttons</li> <li>- Shielded for RF noise suppression</li> </ul> <p>Endoscope</p> <ul style="list-style-type: none"> <li>- Length: 100 cm; Diameter = 10.2 mm</li> <li>- Tip size: width = 15.5 mm, height = 12 mm, circumference = 49.8 mm</li> <li>- Tip articulation range - Anterior: 120°, Posterior: 60°, Left/Right: 45°</li> </ul> <p><b>B-mode Imaging</b></p> <ul style="list-style-type: none"> <li>- Four fundamental frequencies: 3.5, 4.5, 5.5 MHz</li> <li>- IN Focus Technology</li> </ul> <p><b>Color Doppler Imaging</b></p> <ul style="list-style-type: none"> <li>- Color Doppler Velocity (CDV, DTV)</li> <li>- Three frequencies: 3.3, 4.0, 5.0 MHz</li> </ul> <p><b>Spectral Doppler</b></p> <ul style="list-style-type: none"> <li>- CW Spectral Doppler</li> <li>- PW Spectral Doppler</li> <li>- PW Tissue Spectral Doppler ( PW DTI)</li> </ul> <p><b>M-mode</b></p> <ul style="list-style-type: none"> <li>- Four fundamental frequencies</li> <li>- Color M-mode</li> </ul> <p>RES enhanced resolution imaging</p>
<b>SC2000 Adv Vascular Imaging Bundle (Optional)</b>	<p>9L4 transducer supports the following features:</p> <p><b>B-mode Imaging</b></p> <ul style="list-style-type: none"> <li>- Four fundamental frequencies: 3.0, 4.0, 6.0, 8.0 MHz</li> </ul>

/ Product	Description
<p><i>(Continued)</i></p> <p><b>SC2000 Adv Vascular Imaging Bundle (Optional)</b></p>	<ul style="list-style-type: none"> <li>- Two harmonic frequencies: H5.0, H6.0 MHz</li> <li>- IN Focus Technology</li> </ul> <p><b>Color Doppler Imaging</b></p> <ul style="list-style-type: none"> <li>- Color Doppler Velocity (CDV) <ul style="list-style-type: none"> <li>Four frequencies: 2.5, 3.5, 5.0, 6.0 MHz</li> </ul> </li> <li>- Doppler Tissue Velocity (DTV) and Doppler Tissue Energy (DTE) <ul style="list-style-type: none"> <li>Four frequencies: 2.5, 3.5, 5.0, 6.0 MHz</li> </ul> </li> </ul> <p><b>Spectral Doppler</b></p> <ul style="list-style-type: none"> <li>- CW Spectral Doppler at frequencies: 3.0, 3.5 MHz</li> <li>- PW Spectral Doppler at frequencies: 2.5, 3.5, 5.0 MHz <ul style="list-style-type: none"> <li>- PW Doppler tissue imaging (DTI) at frequencies: 3.5, 5.0 MHz</li> </ul> </li> </ul> <p><b>M-mode</b></p> <ul style="list-style-type: none"> <li>- Two harmonic frequencies: H5.0, H6.0 MHz</li> <li>- Four fundamental frequencies: 3.0, 4.0, 6.0, 8.0 MHz</li> <li>- Color M-mode (CDV, DTV, DTE) at frequencies: 2.5, 3.5, 5.0, 6.0 MHz</li> </ul> <p><b>RES enhanced resolution imaging</b></p> <p>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.</p>
<p><b>4V1c Transthoracic Transducer (Optional)</b></p>	<p>Supports the following imaging modes:</p> <ul style="list-style-type: none"> <li>- 2D</li> <li>- Color Doppler (CDV, DTV, DTE)</li> <li>- M-mode</li> <li>- Spectral Doppler (PW, CW, PW DTI)</li> <li>- LVO contrast</li> </ul>