

XR US, VAMC LOMA  
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PO# 605-B60023

## Detailed Technical Specifications

### ACUSON S2000 Touch Screen ultrasound system

Part No. / Product	Description
	<p>ACUSON patented micro-pinless connectors along with sophisticated high-density signal processing create image quality unsurpassed in the high end market. The flat panel monitor with ISP (in-plane switching) technology and transducer technology contributes to the image quality surpassing that of the competition</p> <p>The ACUSON S2000 core system DICOM functionality includes: Modality Worklist, Query/Retrieve (Q/R), "in-progress" or "batch" print to DICOM print devices, "in-progress" or "batch" storage of exam images, clips and patient information, Storage Commitment, transfer of performed procedure information from the ACUSON S2000 system to a HIS/RIS system, and Structured Reporting functionality.</p> <p>DICOM Structured Reporting allows organized transfer of calculation data to PACs systems in either supported public elements, or in private elements for measurements not supported by DICOM S/R and is available for OB/GYN, Cardiac and Vascular calculation data. Structured reporting data may be transferred to DICOM Storage Devices or Network File Share</p> <p><i>The DICOM conformance statement for the ACUSON S2000 ultrasound system is available on the Siemens Healthcare website at:</i></p>
	<p>For additional details regarding the ACUSON S2000 system software license or associated features please refer to the datasheet and/or specifications.</p>
	<p>For additional details regarding the ACUSON S2000 system HELX Evolution with Touch Controls please refer to the datasheet and/or specifications.</p>
	<p>For additional details regarding the ACUSON S2000 system English operating system please refer to the datasheet and/or specifications.</p>
	<p>For additional details regarding the ACUSON S2000™ ultrasound system, HELX™ Evolution with Touch Controls keyboard option, please refer to the datasheet and/or specifications.</p>
	<p>Advanced SieClear™ spatial compounding offers image quality with unrivaled detail and contrast resolution. Advanced SieClear compounding is a real-time compounding technique which applies multiple lines of sight at greater steering angles. Advanced SieClear spatial compounding in Color &amp; Power Doppler* enables ASSC when either Color or Power Doppler is active, bringing the Advanced SieClear spatial compounding image quality advantages to Doppler imaging (available in HELX (VC30) software level and above). Dynamic TCE™ tissue contrast enhancement technology is a real-time speckle reduction technique that enhances contrast resolution, border detection, and image presentation. eSiImage™* multi-parameter image optimization technology maintains image uniformity across all patient body types by adaptively compensating for varying tissue attenuation characteristics in real-time during scanning and allows gain and TEQ adjustments in post processing (available in HELX (VC30B*) software level and above).</p> <p>Clarify™ vascular enhancement technology reduces noise within vessels for superior visualization of vessels as well as enhancing tissue characterization for improved contrast resolution and boundary detection. SieScape™ panoramic imaging option allows the acquisition and display of B-mode panoramic images up to 240 cm in length or in angular measurements up to 180 degrees. Large organs and long vessels can be displayed in their full dimension for increased on-screen anatomical information. SieScape panoramic imaging extends the field of view to provide a seamless ultrasound image covering an area much larger than a normal transducer aperture. Color SieScape™ panoramic imaging allows the user to create an ultrasound image with an extended field of view</p>

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	<p>during real-time imaging in 2D and Power modes. Color SieScape imaging can demonstrate anatomical relationships of tissue/organ and vasculature. TEQ™ ultrasound technology now offers a sophisticated solution for 2D and Spectral Doppler imaging optimization with a push of a button. The TEQ technology significantly reduces time spent optimizing imaging performance, while improving the consistency and quality of diagnostic exams.</p>
	<p>3-Scape™ real-time 3D imaging provides the essential functionality necessary for performing the standard 3D exam. 3-Scape imaging is fully integrated into the ACUSON S2000 system, providing real-time construction of 3D images during free-hand acquisition. 3-Scape imaging offers multiple rendering methods, an array of editing tools, and 3D storage and retrieval functionality. 3-Scape imaging is available in 2D, THI, and Power modes. Advanced <i>fourSight</i>™ technology is the sophisticated partner to 3-Scape imaging. Advanced fourSight technology offers broad 3D/4D acquisition, data rendering and post-processing functionality. Functions include MultiSlice, Thick Slice Imaging (TSI), curved top VOI, curved MPR, sub-states, Gradient Light, and Inversion. Amnioscopic rendering method serves as a complementary function to Advanced <i>fourSight</i> technology by further enhancing the fetus. Its ability to render a volume into the most realistic fetal ultrasound image ever seen before provides unmatched detail and resolution.</p>
	<p><i>syngo</i> Auto OB Measurements is an innovative technology developed by Siemens Corporate Research in collaboration with Siemens Ultrasound. The algorithm has been uniquely trained to be able to auto-measure the structures necessary for measuring CRL, BPD, HL, HC, AC and FL.</p>
	<p>Export of the measurement data together with quantification data and observations is supported through DICOM SR.</p>
	<p>A unique solution, eSie Touch elasticity imaging allows the user to generate the elastogram by applying gentle sequential compression cycles during standard B mode imaging. This relative displacement of tissue is displayed as an elastogram in a live dual image display of the grayscale or color image with the standard B mode image.</p> <ul style="list-style-type: none"> <li>- Unique mapping options in grayscale and color further enhance ease of interpreting the elastogram</li> <li>- Area, Distance and Strain ratio measurement capability allow for quantitative comparison of the two images</li> <li>- A quality Factor indication provides feedback on the quality of acquisition and allows more acute selection of most appropriate frame(s) for assessment or measurement.</li> </ul>
	<p>For additional details regarding the ACUSON S2000 system GI base system please refer to the datasheet and/or specifications.</p>
	<p>For additional details regarding the ACUSON S2000 system, HELX™ Evolution with Touch Control integrated gel warmer, please refer to the datasheet and/or specifications.</p>