

XR US, VAMC LONG BEACH, CA
PO# 600-B60028

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 & 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</p>

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	<p>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 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>Cardiac imaging provides optimization parameters such as DTO™ (Dynamic Tissue Optimization) for creating an optimal image. The extensive measurement package provides measurements and calculations to meet the needs of any customer, such as quantification for spectral DTI, PISA, and Pulmonary Veins.</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>3-Scape™ real-time 3D imaging option features:</p> <ul style="list-style-type: none"> - Acquisition and display of 3D images in 2D and Power modes - Region of Interest (ROI) acquisition available for selective 3D capture to reduce editing - Independent review of 2D or Power mode within the same volume-rendered 3D image - Four quadrant display of volume rendering and Multi-Planar Reformatting (MPR) - Surface and volume rendering in Surface, Opacity, Min. IP, Max. IP, and Mean IP modes - Electronic editing tools to edit the volume for further optimization - Storage, review and re-editing of 3-Scape imaging volumes - Post processing of volumes with zoom, 2D and Power maps, 2D tint maps, dynamic range and priority controls <p>Unique to the 3-Scape imaging feature is the ability to transfer the volume data sets as clips. All three orthogonal planes are converted to clips as defined by the user. Since there is no DICOM standard for volume data sets, this allows for transfer of an entire volume over the network to any workstation. Each acquired orthogonal plane can be viewed as a clip, thereby reducing the amount of effort necessary for reviewing volume data.</p>
	<p>Advanced <i>fourSight</i> technology offers broad 3D/4D acquisition, data rendering and post-processing functionality. For acquisition, the Advanced <i>fourSight</i> technology offers sub-states which provide factory optimized settings for quick access to the primary rendering needs based on the type of tissue being rendered. These include Spine, Fetal Face, Fetal Heart, and Fetal Brain. Gradient Light is a rendering method which simulates the reflection of light off a surface, resulting in improved depth perception. Inversion mode allows anechoic structures to appear echogenic and echogenic structures to appear anechoic, thereby enhancing the visualization of internal surfaces. Clinical applications could be hydrocephalus, fetal heart, bowel obstruction, bladder, gall bladder and ovaries. MultiSlice format allows the user to select range, slice spacing and format for viewing each slice. The MultiSlice formats support up to 36 slices at once. The Thick Slice Imaging (TSI) enables definition of a view plane and creates a thick slice around the region of interest. The benefit is improved contrast resolution, providing more information in a single image. Curved Top VOI allows the straight line of the render direction to be adjusted to contour the shape of the view plane of the Volume of Interest. The benefit is better alignment with anatomy, resulting in improved rendered result with reduced shadowing artifacts. Curved MPR enables real-time multiplanar reformatting of images into any linear or curved plane. This permits the user to set points along a curved object in order to straighten it, such as the Fetal Spine.</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"> - Unique mapping options in grayscale and color further enhance ease of interpreting the elastogram - Area, Distance and Strain ratio measurement capability allow for quantitative comparison of the two images - 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.

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	For additional details regarding the ACUSON S2000 system cardiac base system please refer to the datasheet and/or specifications.

ACUSON S2000 Options Ordering Page

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	<i>For support of a Liver Report page with quantification data and observations, software version 1.5 is required. Export of the measurement data is supported through DICOM SR.</i>