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VAMC LAS VEGAS, NV  
TRADE IN  
EE:49082  
S/N:207053  
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## ACUSON S2000 Touch Screen ultrasound system

All items listed below are included for this system: (See Detailed Technical Specifications at end of Proposal.)

Qty	Item Description
1	<p><b>ACUSON S2000 Mainframe</b></p> <p>The ACUSON S2000(tm) ultrasound system is a multi-specialty system designed to exceed your expectations - today and into the future. The unmatched ability to deliver comprehensive information to make a differential diagnosis even in the most challenging case makes this the system to have "when you need to know more."</p> <p>The industrial design is conducive to today's busy environments.</p> <p>The home base layout of controls and operator functions on the control panel supports the natural and extended reach of the user and greatly reduces keystrokes and repetitive movements.</p> <p>The flat panel display with articulating arm, control panel height adjustment and side-to-side swivel allow for appropriate positioning and placement to accommodate tight and/or awkward scanning environments.</p> <p>A rear handle and extra transducer storage further extend the product offering into the high end arena.</p> <p>In addition to a lightweight system, the QuikStart standby mode enhances system portability by reducing startup and shutdown times to approximately 30 seconds and 10 seconds respectively.</p>
1	<p><b>S2000 VD10x SW</b></p> <p>The ACUSON S2000(tm) ultrasound system software license provides access to the HELX Evolution with Touch Controls, workflow innovations, and a range of performance improvements.</p> <p>The ACUSON S2000(tm) ultrasound system software license provides access to the following advanced general imaging technologies included as standard: The Linear Release, eSiImage(tm) multiparametric optimization, &amp; Custom Tissue Imaging.</p>
1	<p><b>S2000 with Touch Control</b></p> <p>The ACUSON S2000(tm) ultrasound system touch control package provides access to the HELX Evolution with Touch Controls and workflow innovations.</p> <p>This configuration option includes the hardware necessary for a touch display panel and a redesigned tactile control panel.</p>

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1	<p><b>S2000 VD10x Oper Sys, Eng</b></p> <p>This configuration option includes the software operating system supporting Windows 7 for English speaking customers.</p>
1	<p><b>S2000 VD10x English Keyboard</b></p> <p>The ACUSON S2000(tm) ultrasound system Touch Control keyboard option provides access to a pull-out tactile QWERTY keyboard supported for various languages.</p>
1	<p><b>115V Power Supply</b></p>
1	<p><b>S2000 NTSC Video Interface</b></p>
1	<p><b>S2000 General Imaging Technologies</b></p> <p>The ACUSON S2000(tm) ultrasound system offers the General Imaging Technologies package for the ultimate solution of imaging and workflow needs of today's radiology clinic. The General Imaging Technologies package offers advanced image quality and innovative workflow solutions at a reduced price. Advanced SieClear(tm) spatial compounding, Advanced SieClear spatial compounding in Color &amp; Power Doppler*, eSieImage(tm)* multi-parameter image optimization technology processing (available in HELX (VC30B*) software level and above). , Clarify(tm) vascular enhancement technology, SieScape(tm) panoramic imaging, Color SieScape(tm) panoramic imaging and TEQ(tm) ultrasound technology round off this progressive product offering.</p>
1	<p><b>S2000 Advanced OB/Gyn Visualization</b></p> <p>ACUSON S2000(tm) ultrasound system offers the Advanced OB/Gyn Visualization package as a complete offering for the OB/Gyn focused ultrasound clinic. It is comprised of Amnioscopic rendering method, Advanced fourSight(tm) technology, and 3-Scape(tm) real-time 3D imaging. The package provides a spectrum of basic and advanced features and functions essential for OB/Gyn volume imaging and measurements.</p>
1	<p><b>S2000 Wireless Connectivity</b></p> <p>Includes the hardware and software needed to enable wireless capabilities on the ACUSON S2000 ultrasound system. This option is only being offered to qualifying sites that meet certain network specifications. At the time of release, the wireless connectivity feature will support only the following specifications:</p> <ul style="list-style-type: none"> <li>- WLAN types and speeds: WLAN Type: Broadcasting or Non-broadcasting, WLAN Speed: 802.11b/g, 802.11g, 802.11b, 802.11a and 802.11n</li> <li>- Authentication Protocols: Open Shared, WPA, WPA-PSK, WPA2, WPA2-PSK</li> <li>- Data Encryption Types: WEP, TKIP, AES or None</li> <li>- Extensible Authentication Protocols (EAP): EAP-PEAP-MSCHAPV2(PEAPv0) if used at the site To ensure functionality please certify that the site meets the above specifications.</li> </ul>
1	<p><b>S2000 syngo Auto OB Measurements</b></p> <p>syngo(r) Auto OB Measurements is an innovative algorithm which recognizes anatomic landmarks for the standard six major fetal structures (CRL, BPD, HL, HC, AC, and FL) and automatically performs these biometric measurements at the touch of a button. The measurement results are also saved to the report.</p>
1	<p><b>S2000 eSie Touch Elasticity Imaging</b></p> <p>With advances in ultrasound imaging, Siemens brings to market the industry's most innovative technologies. It provides further clinical information for assessment of breast lesions by providing display of relative tissue stiffness. However, a wide range of exam types and transducers extends clinical utility beyond traditional breast exams and allows relative tissue analysis to support or assist in the assessment of multiple clinical tissue appearances.</p> <p>eSie Touch elasticity imaging is a real-time qualitative imaging method that calculates and displays the relative stiffness of tissue.</p> <p>eSie Touch elasticity imaging is primarily optimized for Breast and Prostate exam types. Secondary applications are Thyroid, Peripheral Vascular, Abdominal and Musculoskeletal.</p>

Qty	Item Description
1	<p>Available on the 14L5, 4C1, 6C2, 6C1 HD, 18L6HD, 9L4, MC9-4 and EC9-4 transducers.</p> <p><b>S2000 eSie Strain Ratio</b></p> <p>eSie Strain Ratio allows for a quantifiable method of comparing the strain between two user-selectable regions of interest of an elastogram.</p>
1	<p>Available on 9L4, 14L5 and 18L6 linear transducers, for breast and thyroid imaging.</p> <p><b>S2000 VD10X GI Base Sys</b></p> <p>The ACUSON S2000(tm) ultrasound system with general imaging configuration for customers seeking general imaging use only includes SieStream(tm) HD Architecture hardware imaging components which delivers performance enhancements in image quality, workflow, and sustainability.</p>
1	<p><b>S2000 Gel Warmer</b></p> <p>The ACUSON S2000(tm) ultrasound system touch control keyboard option provides access to an integrated gel warmer.</p>
1	<b>S Family Op Instr, VD10x, ENG</b>
1	<b>S Family Service Manual, VD10x</b>
1	<p><b>Ultrasound Apps Training 2 days included</b></p> <p>Two (2) Days System Installation Applications Training</p> <p>Two days on-site general system installation applications training to include basic or advanced training on systems and options. Extent and objective of training will be determined with the site prior to the training event. Specific options may require one additional no charge applications day. Additional training may be purchased.</p>
1	<p><b>S Family Classic Early Adopter Promo, 1</b></p> <p>This promotion offers a pathway for S Family early adopters (SW VC25X and below) to Trade-Up to a HELX Evolution with Touch Control in the same original configuration. Any additional products or features are sold at a regular options/upgrade discount. The S Family HELX Evolution with Touch Control system includes a one (1) year warranty. Also, the pricing will include the trade-in of the existing S Family ultrasound system.</p>

**Incidental Services for ACUSON S2000 Touch Screen ultrasound system on Quote Nr. 1-HIGKLN Rev. 1**

S2000, Serial Number 207053 EE #49082, expires (9/30/16),

Trade-in value is valid for forty-five (45) days from the date of the quotation. After that time it must be revalued.

The trade-in equipment shall be free and clear of all liens, encumbrances, security interests, assessments, rights of distraint and any other third party claims. Purchaser shall provide Siemens or its designated dealer or agent with access to the trade-in equipment within 48 hours after installation of the new equipment. Title and risk of loss to the trade-in equipment shall pass to Siemens or its designee upon installation of the purchased equipment at the Purchaser's facility. In the event that access to the trade-in equipment is denied for more than 30 days after shipment of the new equipment, then the Purchaser shall pay to Siemens the amount of ten (10) percent of the total trade in value including Elevate discounts for each month, or part thereof, that access is denied. In addition, in the event that the trade-in equipment does not meet manufacturer's operating specifications or is not otherwise in the condition as stated in the trade-in specification sheet at the time of trade-in, or in the event that any trade-in items are not returned or otherwise made available to Siemens or its designee, then Purchaser shall be invoiced and shall pay for any missing or damaged items/equipment, or the trade-in value set forth in this Quotation shall be adjusted in Siemens' sole discretion.

## OPTIONS for ACUSON S2000 Touch Screen ultrasound system

All items listed below are OPTIONS and will be included on this system ONLY if initialed: (See Detailed Technical Specifications at end of Proposal.)

Qty	Item Description
1	<p><b>S2000 Virtual Touch Tissue Img</b></p> <p>Virtual Touch(tm) tissue imaging is a real-time dual display imaging mode that utilizes Acoustic Radiation Force Impulse (ARFI) imaging technology to gently displace tissue for qualitative evaluation of relative tissue stiffness of focal changes in tissue, compared to surrounding tissue. The system automatically generates the tissue displacement without manual tissue compression, so that stiffness of deeper lesions can be visualized as compared to conventional Elasticity Imaging techniques. This qualitative view of tissue stiffness is accomplished using axial displacement correlation methods and displays relative stiffness in gray scale or color. Sophisticated Pulse formation and high speed signal processing allows Real-Time ARFI image generation to enhance exam workflow</p> <p>Available with the 4V1, 4C1, 6C1 HD and 9L4 transducers.</p> <p>Exam types: Abdomen, Renal, Breast, Thyroid</p>
1	<p><b>S2000 Virtual Touch Quant USA</b></p> <p>Virtual Touch(tm) quantification (VTq) is a real-time measurement technique that utilizes the shear waves that arise with use of Acoustic Radiation Force Impulse (ARFI) imaging technology.</p> <ul style="list-style-type: none"> <li>- Visualization of the desired anatomical location in the B-mode image allows accurate and consistent placement of the measurement cursor.</li> <li>- Sophisticated pulse formation and high speed signal processing allows real-time quantitative measurement of the shear wave velocities as they pass through a small region of interest.</li> <li>- The speed at which these shear waves pass through tissue correlates with the tissue stiffness, enabling exact measurement. Measurements may be placed into a comprehensive measurement package during the routine ultrasound exam, enhancing workflow.</li> </ul> <p>Helx Evolution Hardware and Software (VC30 or Above) are required for the implementation of Virtual Touch(tm) Quantification.</p> <p>Available with the 6C1 HD, 4V1, 4C1 and 9L4 transducer</p> <p>Product pending shipment confirmation.</p>
1	<p><b>VTQ S Family Addendum, USA, S2000</b></p>
1	<p><b>S2000 Virtual Touch IQ USA</b></p> <p>The ACUSON S2000 ultrasound system Virtual Touch IQ software license provides a color-coded tissue stiffness map and shear wave velocity measurements on a single image. The addition of a unique Quality Map allows immediate assessment of shear wave quality and improves diagnostic confidence. Unique algorithms that prevent display of areas with no shear</p>

## Detailed Technical Specifications

### ACUSON S2000 Touch Screen ultrasound system

/ Product	Description
<b>ACUSON S2000 Mainframe</b>	<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>
<b>S2000 VD10x SW</b>	For additional details regarding the ACUSON S2000 system software license or associated features please refer to the datasheet and/or specifications.
<b>S2000 with Touch Control</b>	For additional details regarding the ACUSON S2000 system HELX Evolution with Touch Controls please refer to the datasheet and/or specifications.
<b>S2000 VD10x Oper Sys, Eng</b>	For additional details regarding the ACUSON S2000 system English operating system please refer to the datasheet and/or specifications.
<b>S2000 VD10x English Keyboard</b>	For additional details regarding the ACUSON S2000™ ultrasound system, HELX™ Evolution with Touch Controls keyboard option, please refer to the datasheet and/or specifications.
<b>S2000 General Imaging Technologies</b>	<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</p>

Product	Description
<b>(Continued)</b>  <b>S2000 General Imaging Technologies</b>	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.
<b>S2000 Advanced OB/Gyn Visualization</b>	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 fourSight™ 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 fourSight 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.
<b>S2000 syngo Auto OB Measurements</b>	syngo 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.
<b>S2000 eSie Touch Elasticity Imaging</b>	<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>
<b>S2000 VD10X GI Base Sys</b>	For additional details regarding the ACUSON S2000 system GI base system please refer to the datasheet and/or specifications.
<b>S2000 Gel Warmer</b>	For additional details regarding the ACUSON S2000 system, HELX™ Evolution with Touch Control integrated gel warmer, please refer to the datasheet and/or specifications.
<b>S2000 Virtual Touch Tissue Img (Optional)</b>	Export of the measurement data together with quantification data and observations is supported through DICOM SR.