

605-B40015
LOMA LINDA, CA.

ACUSON S3000 ultrasound system

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

Qty	Part No.	Item Description	Extended Price
1	10441730	ACUSON S3000 Mainframe The ACUSON S3000(tm) ultrasound system mainframe is the new ultra-premium system in the expanding ACUSON S Family(tm) of ultrasound systems. It provides first access to the latest Siemens pioneering technologies. The ACUSON S3000 system is the gateway to Siemens' pioneering technologies now and in the future.	
1	10854178	S3000 HELX VC30 SW The HELX software release for the ACUSON S3000(tm) ultrasound system continues to advance the performance and capabilities of the system and ensure imaging performance which meets the most exacting demands. The release features significant image quality advances with new imaging technologies and modes, an enhanced software user interface with "heads up display" and ease of use workflow functionality. Together with the new Siestream(tm) HD hardware, the HELX software takes the ACUSON S3000 system performance to another level. Continuing to deliver on the promises of premium performance and extraordinary technology.	
1	10854183	S3000 HELX VC30 Operating Sys Eng	
1	10854186	S3000 HELX VC30 English Keyboard	
1	10442012	S3000 115V Power Supply Standard power supply for USA	
1	10442015	S3000 NTSC Video Interface	
1	10442056	S3000 Advanced Breast Imaging ACUSON S3000(tm) ultrasound system offers the Advanced Breast Imaging package inclusive of eSie Touch(tm) elasticity imaging and Custom Tissue Imaging. eSie Touch elasticity imaging is a real-time qualitative imaging method that calculates and displays the relative stiffness of tissue. Custom Tissue Imaging provides enhanced B mode image quality with improved lateral and contrast resolution for superior ultrasound imaging of the fatty breast.	
1	10442009	S3000 Advanced OB/Gyn Visualization ACUSON S3000(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.	

**Extended
Price**

Qty	Part No.	Item Description	
1	10851575	S3000 Virtual Touch Tissue Img 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 Available with the 4V1, 4C1, 6C1 HD and 9L4 transducers. Exam types: Abdomen, Renal, Breast, Thyroid	
1	10855746	S3000 Virtual Touch Quant USA 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. - Visualization of the desired anatomical location in the B-mode image allows accurate and consistent placement of the measurement cursor. - 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. - 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. Helx Evolution Hardware and Software (VC30 or Above) are required for the implementation of Virtual Touch(tm) Quantification. Available with the 6C1 HD, 4V1, 4C1 and 9L4 transducers Product pending shipment confirmation.	
1	10855742	S3000 Virtual Touch IQ, USA The ACUSON S3000(tm) ultrasound system Virtual Touch(tm) IQ software license is a required peripheral for the use of color-coded tissue stiffness map and shear wave velocity measurements on a single image. With Virtual Touch IQ, Siemens adds the third generation of its recognized strain solutions, providing a single image presentation of both qualitative and quantitative assessment of tissue stiffness. Virtual Touch IQ provides immediate visual assessment of lesions and simultaneous quantitative evaluation. It also allows faster and more accurate stiffness quantification.	
1	10854246	7CF1 Transducer, S3000 The 7CF1 transducer offers a broad frequency range and superior image quality, contrast and detail resolution in 2D, 3D, and real-time 3D imaging modes. This transducer capably covers the majority of transabdominal radiology and OB/GYN needs. Small and lightweight, it is ergonomically comfortable and allows easy access to imaging windows. The 7CF1 utilizes a patented ACUSON(tm) micro-pinless transducer connector.	
1	10442092	9EVF4 Transducer (MP), S3000 The 9EVF4 transducer utilizes a patented ACUSON(tm) micro-pinless transducer connector with 192 elements and a center frequency of 6.2 MHz. Wideband MultiHertz(tm) multiple frequency imaging provides multiple transmit frequencies. Integrated microelectronics combined with a revolutionary SuppleFlex(tm) transducer cable provides a lightweight design to reduce operator fatigue. The 9EVF4 transducer is ergonomically designed for patient comfort and ease of use. The 9EVF4 supports a unique offering by electronically steering the Beta angle of the array for alleviation of user wrist fatigue.	
1	10442094	4V1 Transducer (MP), S3000 The 4V1 is a small footprint transducer featuring microCase(tm) miniaturization technology and can be used for a broad range of adult abdominal, OB/GYN, and fetal heart imaging applications. This transducer utilizes ACUSON(tm) patented micro-pinless connector technology and Hanafy lens transducer technology to provide improved resolution and image uniformity. The 4V1 transducer delivers excellent detail and contrast resolution, high sensitivity in color and spectral Doppler modes, independent frequency selection across modes, superior ergonomic design for comfort and access.	

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Qty	Part No.	Item Description	
1	10442107	9L4 Transducer (MP), S3000 The 9L4 transducer utilizes patented ACUSON(tm) micro-pinless (MP) connector and is based on Multi-D(tm) matrix array transducer technology and exceptional spatial resolution throughout the field of view. This multi-row array transducer is contained in an ergonomically designed microCase(tm). This transducer technology with its improved beam profile creates unsurpassed image detail, clarity and uniformity. Wideband MultiHertz(tm) multiple frequency imaging provides multiple transmit frequencies. Integrated microelectronics contained in an ergonomically designed microCase(tm) and combined with a revolutionary SuppleFlex(tm) transducer cable provide a lightweight design to reduce operator fatigue.	
1	10442109	14L5 SP Transducer (MP), S3000 The 14L5 SP transducer utilizes patented ACUSON(tm) micro-pinless (MP) connector technology and is specially designed for intra-operative applications. Its small, lightweight, offset "L" ergonomically designed form factor allows for easy access in tight imaging conditions. With superior contrast and detail resolution and improved accessibility due to the design, the 14L5 SP may also be used for breast, small parts and musculoskeletal applications where improved access and a small footprint are required. The 14L5 SP has 128 elements with a center frequency of 9 MHz. Sterilizable* High Resolution Linear Array for Special Applications.	
1	10442110	18L6 HD Transducer, S3000 The 18L6 HD (High Density) is a large format, 50mm, linear transducer with a 6 to 18 MHz bandwidth. The 18L6 HD utilizes Hanafy lens transducer technology providing an industry leading high density (HD) 100 micron pitch for unrivaled contrast and spatial resolution. Additionally, ACUSON(tm) patented micro-pinless (MP) connector technology and Wideband MultiHertz(tm) multiple frequency imaging capabilities set the standard for high frequency imaging. It is built with patented Elastogrip(tm) ergonomic grip coating for unrivaled grip comfort and repetitive stress reduction. A specially designed SuppleFlex(tm) transducer cable provides a lightweight design to reduce operator fatigue. eSieTouch(tm) elasticity imaging is supported on the 18L6 HD.	
1	10442111	6C1 HD Transducer, S3000 The 6C1 HD high-density array transducer will enhance the ACUSON S3000(tm) ultrasound system capabilities. It provides not only the fundamental imaging capabilities such as B-mode, Color and PW Doppler, Color Doppler Energy (CDE), Tissue Harmonic Imaging (THI) and TEQ(tm) ultrasound technology, but also supports advanced technologies such as Advanced SieClear(tm) Spatial Compounding (ASSC) and Dynamic TCE(tm) Tissue Enhancement Technology (DTCE). The transducer technology and design support a frequency range of 6MHz to 1MHz. Both fundamental and harmonic frequencies are supported. Maximum imaging depth is 30 cm.	
1	10854166	S3000 HD GI Base System	
1	10854105	S Family Op Instruct, HELX, English S Family Op Instruct, HELX, English	
1	10854274	S Family Service Manual, HELX S Family Service Manual, HELX	
1	US_APPS_INC L2D	Ultrasound Apps Training 2 days included Two (2) Days System Installation Applications Training 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.	
1		BIOMEDICAL TUITION	

Detailed Technical Specifications

ACUSON S3000 ultrasound system

Part No. / Product	Description
10441730 ACUSON S3000 Mainframe	<p>In keeping with the ultra-premium nature of the ACUSON S3000 system, key technologies with leading features such as Data Transfer to Nuance PowerScribe 360 and Measurement Export are included. Also, the following software packages are included as standard on the mainframe:</p> <ul style="list-style-type: none">- Advanced SieClear™ spatial compounding provides image quality with stellar detail and contrast resolution. Advanced SieClear compounding offers an industry first with 13 lines of site.- 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).- eSieImage™* 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)..- Clarify™ Vascular Enhancement (VE) technology uniquely utilizes power Doppler 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 to further enhance tissue characterization and contrast resolution as well as improve boundary detection between tissues and clearly delineate vessel walls.- TEQ™ ultrasound technology now offers a sophisticated solution for 2D and Spectral Doppler imaging optimization with a push of a button. TEQ ultrasound technology significantly reduces time spent optimizing imaging performance, while improving the consistency and quality of diagnostic exams.- The ACUSON S3000 system Multi-modality Review software license enables side-by-side comparisons of ultrasound with CT and MR images. The rapid query, retrieval, and side-by-side comparison of multiple modalities may aid in the differential diagnosis of lesions and increase accuracy of follow-up measurements performed in the same plane as well as enhance workflow with immediate reference to CT/MR/Mammograms.- The SieScape™ and Color SieScape™ panoramic imaging option allows real-time 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.- Data transfer to Nuance Powerscribe® 360 Reporting enables the ACUSON S3000 ultrasound system to send measurement data at the end of the exam directly to Nuance PowerScribe 360 Reporting via Nuance's Web Services API. The customer is responsible for set up and installation on the PowerScribe 360 Reporting side (creation of custom fields for each desired ACUSON S3000 measurement field in the PowerScribe 360 Reporting database and modification of customer reports to include those custom fields). Customers should contact their Nuance Sales Executive regarding Nuance fees and support services.- Wireless Connectivity includes the hardware and software needed to enable wireless capabilities on the ACUSON S3000 system. This option is only being offered to qualifying sites that meet certain network specifications

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10442056 S3000 Advanced Breast Imaging	<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 and Distance ratio measurement capability allow for quantitative comparison of the two images. <p>Custom Tissue Imaging (CTI) provides a solution for a common problem in breast imaging. The ultrasound B-mode image quality is compromised when examining the fatty breast as the speed of sound in fatty tissue is significantly different and so spatial resolution is compromised. Custom Tissue Imaging corrects for these phase aberrations caused by the speed of sound mismatch and optimizes the image in real-time, resulting in improved lateral resolution and boundary definition.</p>
10442009 S3000 Advanced OB/Gyn Visualization	<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 S3000 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 <i>fourSight</i> 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>
10851575 S3000 Virtual Touch Tissue Img	Export of the measurement data together with quantification data and observations is supported through DICOM SR.
10442092 9EVF4 Transducer (MP), S3000	The 9EVF4 transducer extends over multiple applications including imaging providing a single-solution transducer for both 2D, 3D and 4D imaging.
10442094 4V1 Transducer (MP), S3000	The 4V1 transducer extends over multiple applications providing a single-solution transducer.
10442107 9L4 Transducer (MP), S3000	The 9L4 transducer extends over multiple applications including imaging providing a single-solution transducer.
10442109 14L5 SP Transducer (MP), S3000	<p>The 14L5 SP intra-operative and small parts imaging provides a multi-functional, high frequency, linear array transducer.</p> <p>* The 14L5 SP transducer is compatible with the STERRAD Sterilization System</p> <ul style="list-style-type: none"> - Array footprint: 26 mm - Maximum field of view: 61 mm; 40 degrees in Virtual Format. - Virtual Format imaging mode extends the lateral field of view - Maximum Depth of display: 6cm <p>Multiple frequencies for all modes 2D, M-mode, Harmonics, Color Doppler (CDV and CDE), and PW Doppler.</p>
10442110 18L6 HD Transducer, S3000	<p>The 18L6 HD extends over multiple superficial applications.</p> <ul style="list-style-type: none"> - Expanded MultiHertz™ multiple frequency imaging for 2D, Harmonics, M-mode, Color Doppler (CDE and CDV), and PW Doppler - Virtual Format imaging mode extends the lateral field of view - Array footprint: 58 mm - Maximum display depth of 80 mm - Maximum field of view is 40 degrees in sector format.