

WHSE/PAD B64008
V.A. Medical Center
3801 Miranda Ave
Building 50
Palo Alto, CA 94304

P.O.# 640-B64008

Qty	Item Description
1	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	S3000 VD10x SW The ACUSON S3000(tm) ultrasound system software license provides access to the HELX Evolution with Touch Controls, workflow innovations, and a range of performance improvements. The ACUSON S3000TM ultrasound system software license provides access to the following advanced general imaging technologies included as standard: The Linear Release, Custom Tissue Imaging, eSiImageTM multiparametric optimization, Advanced SieClearTM spatial compounding (ASSC), Wireless DICOM reporting, Multi-modality Review (MMR), Clarify(tm) Vascular Enhancement (VE), TEQ(tm) ultrasound technology, SieScape(tm) and Color SieScape(tm) panoramic imaging, Data transfer to Nuance Powerscribe(r) 360 Reporting, & Measurement Export.
1	S3000 with Touch Control The ACUSON S3000(tm) ultrasound system touch control package provides access to the HELX Evolution with Touch Controls and workflow innovations. This configuration option includes the hardware necessary for a touch display panel and a redesigned tactile control panel.
1	S3000 VD10x Oper Sys, Eng This configuration option includes the software operating system supporting Windows 7 for English speaking customers.
1	S3000 VD10x English Keyboard The ACUSON S3000(tm) ultrasound system Touch Control keyboard option provides access to a pull-out tactile QWERTY keyboard supported for various languages.
1	S3000 115V Power Supply Standard power supply for USA
1	S3000 NTSC Video Interface
1	S3000 Liver Tissue Analysis USA The Liver Tissue Analysis package combines qualitative Virtual Touch(tm) tissue imaging (VTi) visualization capabilities with the complementary quantitative measurement capability of

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Item Description

Virtual Touch(tm) tissue quantification (VTq).

A new dimension of tissue structural information can now be obtained from a diagnostic ultrasound study of the liver, within routine ultrasound workflow. Using Acoustic Radiation Force Impulse (ARFI) techniques with sophisticated pulse formation and high speed computational algorithms, the comprehensive Liver Tissue Analysis package provides real-time dual display of relative tissue stiffness with the push of a button.

Available with the 6C1 HD, 4V1, 4C1 and 9L4 transducers.

Product pending shipment confirmation.

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VTQ S Family Addendum, USA, S2000

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S3000 eSie Fusion imaging

The ACUSON S3000(tm) ultrasound system eSie Fusion(tm) Imaging software license is an option for the new ultra-premium system expanding the ACUSON S Family(tm) ultrasound system. It provides access to fast and easy fusion of computed tomography (CT) and magnetic resonance (MR) volumes with ultrasound, bringing fusion imaging into new focus for both interventional and follow-up ultrasound examinations. The ability to bring complex cases into the ultrasound exam room provides benefits in enhanced utilization of CT and MR with potential radiation dose reduction.

Computed tomography (CT) and ultrasound fusion combines the benefits of real-time ultrasound imaging with the global imaging display of CT. However, with previously available Fusion, patients needed to lie completely still during the entire exam to prevent elaborate and time-consuming manual realignments of the registered volumes. eSie Fusion imaging, which is the automatic fusion of real-time ultrasound with 3D computed tomography (CT) volumes, eliminates this onerous requirement and can be performed via a single click. This approach accelerates workflow and improves the accuracy of image alignment, which can allow the seamless integration of fusion imaging into existing practice.

MR volume registration is additionally provided and provides significantly enhanced workflow benefits over previously available Fusion methods.

This feature is a Siemens pioneering technology and is exclusive to the ACUSON S3000(tm) Ultrasound System.

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S3000 eSie Fusion Basic Kit

The ACUSON S3000(tm) ultrasound system eSie Fusion(tm) Imaging Basic Kit is required for eSie Fusion(tm) Imaging. This kit provides the necessary additional hardware to run fusion.

The eSie Fusion Basic Kit includes the following:

- PN10035045 Cable USB connector to TrakStar2 Box
- PN10042515 Power Cable for TrakStar2 Box
- PN10441627 General Purpose Sensor for Transducers
- PN10441680 Cable Clips & Sensor Mounting

PN10441624 Magnetic Field Tracking Box - TrakStar2

The eSie Fusion Imaging Basic Kit must be used in conjunction with the Advanced Kit (MR Transmitter and/or Pole for MRT).

This feature is a Siemens pioneering technology and is exclusive to the ACUSON S3000(tm) Ultrasound System.

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S3000 eSie Fusion Advanced Kit 1

The ACUSON S3000(tm) ultrasound system eSie Fusion Imaging Advanced Kit is an optional peripheral for eSie Fusion(tm) Imaging but required if Fusion is required in the CT suite.

The eSie Fusion Advanced Kit includes the following:

- Magnetic Field Generator with Connector Cable

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- Magnetic Field Generator Mounting Pole

The eSie Fusion Imaging Advanced Kit must be used in conjunction with the Basic Kit Kit (General purpose sensor, Electronics Unit, Cable Clips, Sensor Mounting, USB cable, & Power cable), eSieFusion Imaging software license, and Tracking brackets with or without needle guides.

This feature is a Siemens pioneering technology and is exclusive to the ACUSON S3000(tm) Ultrasound System.

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S3000 eSie Guide for Fusion

The ACUSON S3000(tm) ultrasound system eSie Guide Imaging Needle Tracking Kit is a required peripheral for eSie Fusion(tm) Imaging with needle guidance. It provides the necessary equipment to track and re-use disposable needles.

The ACUSON S3000 system eSie Guide Imaging Needle Tracking Kit includes the following:

- Multi-use Needle Sensor
- ETRAX Starter Kit with Disposable 16ga Needles

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4C1/6C1 Track Brkt w/guide, S3000

The 4C1 tracking bracket with guide is an attachable transducer bracket compatible with the 4C1 and 6C1 transducers. These brackets aid in needle-guided biopsies.

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4V1 Track Brkt w/guide, S3000

The 4V1 tracking bracket with guide is an attachable transducer bracket is compatible with the 4V1 transducer. This bracket aids in needle-guided biopsies.

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6C2 Track Brkt w/guide, S3000

The 6C2 tracking bracket with guide is an attachable transducer bracket compatible with the 6C2 transducer. This bracket aids in needle-guided biopsies.

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B/W Printer, S3000

The B/W printer is the ideal choice for the ultrasound market. The B/W printer has 256 gray scale with 260 dots per inch (DPI) and dot resolution up to 1365 x 1024. 7 user-selectable image sizes: normal, large, small-normal, small-large, square, X1.5, X 1.7. Print capacity of approximately 215 prints per roll. Printing time: 20 seconds. 6' printer cable included for off-board location.

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S3000 Fusion OEM HW 2

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4C1 Transducer (MP), S3000

The 4C1 transducer utilizes patented ACUSON(tm) micro-pinless (MP) connector and is based on Hanafy lens transducer technology in an ergonomically optimized microCase(tm) transducer miniaturization technology design. Hanafy lens technology for uniformly narrow image slice thickness, dual frequency NTHI capability, excellent penetration, detail and contrast resolution, high signal to noise ratio, high sensitivity in color and spectral Doppler modes, independent frequency selection across modes, superior ergonomic design for comfort and access. Wideband MultiHertz(tm) multiple frequency imaging provides multiple transmit frequencies ranging for optimal resolution and penetration. Excellent detail resolution is apparent in primary applications including general abdominal, renal, and OB/GYN imaging. The 4C1 transducer is also optimized for those exams that require additional imaging penetration such as technically difficult patients.

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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.

Qty	Item Description
1	<p>14L5 Transducer (MP), S3000</p> <p>The 14L5 transducer utilizes a patented ACUSON(tm) micro-pinless (MP) connector and is based on Multi-D(tm) matrix array transducer technology for precise beam elevation control and exceptional spatial resolution throughout the field of view as well as 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.</p>
1	<p>9L4 Transducer (MP), S3000</p> <p>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.</p>
1	<p>18L6 HD Transducer, S3000</p> <p>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.</p>
1	<p>6C1 HD Transducer, S3000</p> <p>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).</p> <p>The transducer technology and design support a frequency range of 6MHz to 1MHz. Both fundamental and harmonic frequencies are supported.</p> <p>Maximum imaging depth is 30 cm.</p>
1	<p>S3000 Gel Warmer</p> <p>The ACUSON S3000(tm) ultrasound system touch control keyboard option provides access to an integrated gel warmer.</p>
1	<p>S3000 VD10X GI Base Sys</p> <p>The ACUSON S3000(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	USB Footswitch, S3000
1	S Family Op Instr, VD10x, ENG
1	S Family Service Manual, VD10x

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Item Description

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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.

Offset Part 11147884 S Family Op Instr, VD10x, ENG

Offset Part 11147913 S Family Service Manual, VD10x

One complimentary biomedical tuition is included with the purchase of this system. This training must be completed before the end of the warranty period.

This educational offering must be completed by the later of (12) months from purchase of training or if applicable, completion of installation. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.

Detailed Technical Specifications

Description
<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

Description
specifications
For additional details regarding the ACUSON S3000 system software license or associated features please refer to the datasheet and/or specifications.
For additional details regarding the ACUSON S3000 system HELX Evolution with Touch Controls please refer to the datasheet and/or specifications.
For additional details regarding the ACUSON S3000 system English operating system please refer to the datasheet and/or specifications.
For additional details regarding the ACUSON S3000™ ultrasound system HELX™ Evolution with Touch Control keyboard option, please refer to the datasheet and/or specifications.
<p>Virtual Touch applications* implement ARFI imaging technology to provide both qualitative regional and quantitative focal assessments of deep tissue stiffness. Conventional elastography provides information on tissue stiffness, and can provide a deeper understanding of lesion types. Virtual Touch applications* are independent of user variables, utilizing the pushing force inherent in an ultrasound pulse to compress the tissues and provide qualitative and quantitative measures of stiffness. An additional unique qualitative assessment can be provided over the area of interest with Virtual Touch Imaging*.</p> <p>For detailed quantification of stiffness, the shear waves that arise laterally as a result of applying a push pulse can now be detected and their speed measured. As this speed is directly related to the stiffness of the tissue, a true quantitative value for stiffness can be obtained of either a lesion, or of the tissue itself, providing valuable information on relative tissue changes over time, or actual values for stiffness compared with surrounding tissues. The use of a specific ROI to select the precise location of interest, enhances accuracy. With measurements being obtained in a fraction of a second, workflow is not interrupted and the same transducer can be used as in the standard examination. An additional advantage is that no transducer calibration or additional servicing is required.</p> <p>Together, the Virtual Touch applications (imaging and quantification)* provide new tools for tissue assessment, allowing a new dimension of diagnostic accuracy. Export of the measurement data is supported through DICOM SR from the dedicated Liver Analysis report.</p>
<p>The <i>4C1 and 6C1HD transducer tracking bracket with guide</i> on the ACUSON S3000™ ultrasound system supports <i>eSie Fusion™ Imaging (PN10442057)</i> & <i>eSie Guide Needle Tracking (PN1085515)</i> requiring at minimum the 1.5 Release (VC25A) software upgrade.</p> <p>When the <i>eSie Fusion Imaging Basic Kit (PN10851590)</i> is selected, this bracket must be ordered since it attaches the General Purpose sensor to the transducer.</p>
<p><i>4V1 track bracketing with guide</i> on the ACUSON S3000™ ultrasound system supports <i>eSie Fusion™ Imaging eSie Fusion™ Imaging (PN10442057)</i> & <i>eSie Guide Needle Tracking (PN10851593)</i> requiring at minimum the 1.5 Release (VC25A) software upgrade.</p>
<p><i>6C2 tracking bracket with guide</i> on the ACUSON S3000™ ultrasound system supports <i>eSie Fusion™ Imaging eSie Fusion™ Imaging (PN10442057)</i> & <i>eSie Guide Needle Tracking (PN10851593)</i> requires at minimum the 1.5 Release (VC25A) software upgrade.</p>
<p>The <i>Mitsubishi B/W printer</i> can be purchased for on-board (PN10853102) or off-board (PN10853103) system configurations. Mounting brackets combinations for on-board configurations are required to support this printer. B/W printer is mounted on-board prior to shipment. If dual on-board OEM's are ordered, complete mounting and assembly is performed prior to shipment.</p>

Description
<ul style="list-style-type: none">- The 4C1 transducer supports a wide range of applications and imaging features in order to provide a fully functional curved array transducer.
<p>The 4V1 transducer extends over multiple applications providing a single-solution transducer.</p> <ul style="list-style-type: none">-
<p>The 14L5 extends over multiple applications providing a single-solution transducer.</p>
<p>The 9L4 transducer extends over multiple applications including imaging providing a single-solution transducer.</p>
<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.
<p>For additional details regarding the ACUSON S3000 system HELX Evolution with Touch Controls integrated gel warmer please refer to the datasheet and/or specifications.</p>
<p>For additional details regarding the ACUSON S3000 system GI base system please refer to the datasheet and/or specifications.</p>