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V. A. Medical Center
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PO#: 521-B62018

REQUESTING SERVICE: ACOS/ACUTE AND SPECIALT

Qty	Item Description
1	ACUSON SC2000 Mainframe The ACUSON SC2000(tm) volume imaging ultrasound system is the premier cardiac system for both 2D and 3D volume integrated workflow. Built on a superior architecture platform, the ACUSON SC2000 system delivers 16 times the processing speed of a premium 2D ultrasound system. Empowered by IN Focus Technology, the system delivers excellent image quality for both 2D imaging and real-time full-volume imaging. Volume acquisition can be performed at 90 degrees x 90 degrees with up to 40 volumes per second. The eSieScan(tm) Workflow Protocols and knowledge-based workflow technologies simplify the integration of 2D and volume imaging protocols to improve day to day efficiency. The ACUSON SC2000 ultrasound system is protected against viruses, malware and other threats by Ultrasound System Security, powered by McAfee(r) Embedded Security solutions.
1	SC2000 4.0 3D SW Base software to support all Release 4.0 standard imaging and advanced applications related to 2D and 3D imaging. This item is pending shipment.
1	SC2000 PRIME Config The base SW and HW for Release 4.0 system in PRIME configuration. The software and hardware level will support all Release 4.0 standard imaging and advanced applications related to 2D and 3D imaging, along with true volume TEE imaging capabilities. This item is pending shipment.
1	SC2000 4.0 Operating Sys, English
1	SC2000 English keyboard
1	115V Power Supply SC2000
1	NTSC Video Interface SC2000
1	SC2000 Storage Tray Storage tray for miscellaneous imaging/scanning supplies such as towels, gel, and electrodes that reside on the back of the system. The tray is configurable so the tray sections may become larger or smaller based on individual user's need.
1	SC2000 eSie Measure Pkg The eSie Measure(tm) workflow acceleration package is the first innovative application that provides semi-automated measurements for routine echo exams, improving efficiency and consistency for end users. Based on a knowledge base of over a thousand expert-traced datasets, the eSie Measure package improves accuracy and reproducibility. With a push of a button, the eSie Measure package semi-automatically generates reliable measurement data for 2D, M-mode and spectral Doppler, increasing consistency of each exam, while reducing key strokes.

Qty	Item Description
1	SC2000 Adv ICE Pkg This advanced AcuNav package enables use of the ACUSON AcuNav 2D (8F, 10F), 3D AcuNav V volume ultrasound catheters and SoundStar for Intracardiac Echo (ICE) procedures. Note: ACUSON AcuNav 2D ultrasound catheters sold separately.
2	Manual AcuNav US Catheter English
2	AcuNav V US Catheter English Manual
1	SC2000 Cartosound Comm Pkg This license enables Ethernet communication between the ACUSON SC2000(tm) volume imaging ultrasound system, premium edition and the Biosense Webster CARTOSOUND(tm) system.
1	SC2000 Nasal Respirometer Utilized to display the timing of inspiration and expiration events.
1	SC2000 Respirometer Nose Clip
1	SC2000 Dynamic NTEQ Ultrasound Tech Native TEQ(tm) dynamic ultrasound technology (NTEQ) offers a sophisticated solution for 2D gain optimization capabilities in a continuous manner. NTEQ technology significantly reduces time spent optimizing imaging performance, while improving the consistency and quality of diagnostic exams.
1	SC2000 Wireless Readiness Includes the hardware and software needed to enable wireless capabilities on the system
1	4V1c Transthoracic Transducer A vector wide-view array transducer for transthoracic adult and pediatric echocardiography.
1	Aux CW Transducer 2.0 MHz Non-imaging Doppler transducer for transthoracic adult and pediatric continuous wave spectral Doppler echocardiography.
1	SC2000 4.0 Cardiac Base System
1	SC2000 Gel Warmer The gel warmer includes a power supply.
1	Stress Echo Ext/Adapter Cables Sequoia and CV70 stress echo adapter cables.
1	USB Footswitch Three-pedal programmable USB footswitch.
1	Ultrasound Apps Training 1 day included One (1) Day System Installation Applications Training One day on-site general system installation applications training to include basic or advanced training on system 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	Additional Manuals for Govt-SC2000

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

Offset Part 10044202 AcuNav US Catheter English

Offset Part 10441163 AcuNav V US Catheter English Manual @

OPTIONS

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Qty	Item Description
1	SC2000 4.0 eSie Stress Echo The Stress Echo application provides tools for ECG-triggered acquisition, display, selection, comparison, evaluation and archiving of multiple cardiac loops during various stages of a Stress Echo examination. This item is pending shipment.
1	SC2000 Adv Vascular Imaging Bundle Bundle includes the 9L4, a linear array transducer for peripheral and cerebrovascular imaging and Advanced SieClear(tm) spatial compounding which that offers image quality with unrivaled detail and contrast resolution.

Detailed Technical Specifications

Description

The system mainframe comes standard with eSieScan™ Workflow Protocols, Cardiac Calculation Package, Physiologic Module, imaging enhancement technologies including Native™ Tissue Harmonic Imaging (NTHI), and IN Focus Technology, the next generation Coherent Image Formation technique.

eSieScan Workflow Protocols:

eSieScan workflow protocols guide the operator through the clinical workflow steps required to complete an exam. Using protocol-driven workflow ensures a consistent, repeatable process with reduced keystrokes, thus leading to more accurate outcomes. With the ability to customize the protocol, a user can structure the protocol to meet the lab's needs.

Workflow protocols include automated features for:

- Automatic mode and measurement activation (4D, color Doppler, spectral Doppler, Thin Volume or 2D, M-mode)
- Transducer switching (necessary to go from 2D imaging to 4D imaging)
- Available for Adult and Pediatric Echo

IN Focus Technology:

IN Focus Technology is the next generation real-time Coherent Image Formation technique that provides dynamic transmit focus at all depths for superior 2D and volume imaging without user intervention.

This technique allows each transducer to reach its highest beamforming potential in terms of detail and contrast resolution.

Unlike conventional beamforming where transmit is focused at a single depth within a scan, or focal zone, IN Focus Technology builds up transmit focusing at every point in the image for the entire field of view by combining information from overlapping transmit events. This is equivalent to hundreds of transmit focal zones from near to far field. Using the power of up to 64 parallel receive beams and the unique coherent imageformer engine, IN Focus Technology gathers and processes enough unique information from each firing to retrospectively achieve two-way focusing at all depths without any user intervention. In addition to delivering superior image quality, IN Focus Technology also improves user workflow by eliminating the need for continuous focal point adjustment as in conventional imaging.

The ACUSON SC2000 system mainframe also includes the DICOM package with all classes as defined in the DICOM conformance statement such as DICOM Structured Report, DICOM Query/Retrieve, DICOM Store/Print, and Modality Worklist.

The Release 4.0 software includes Microsoft Windows 8 as the operating system.

The SC2000 Adv ICE option includes:

- 3D Swiftlink V Adapter, SC2000
- 2D Swiftlink Adapter, SC2000
- Box of sterile, single-use covers for the SwiftLink V and SwiftLink connectors
- User manual supplement (CD-ROM Format)

Note: ACUSON AcuNav 2D ultrasound catheters sold separately.

Native TEQ™ ultrasound technology for 2D imaging

Native TEQ™ ultrasound technology for 2D imaging enhances uniformity of the image, suppresses noise, improves plunkability, and provides consistent image optimization. In 2D, this pre-processing technology monitors images for subtle tissue and interface changes distinguishing between soft tissue, artifacts, noise and specular reflectors. An overall and depth related gain optimization is performed in a continuous manner without

<p>Description</p> <p>the need for user input</p> <p>The user may select Semi-dynamic and Dynamic update options which are exam presettable. 2D NTEQ technology is available for all exam types and transducers (Note: Not available in 4D imaging on the 4Z1c transducer).</p>
<p>Supports the following imaging modes:</p> <ul style="list-style-type: none"> - 2D - Color Doppler (CDV, DTV, DTE) - M-mode - Spectral Doppler (PW, CW, PW DTI) - LVO contrast
<p>Fifteen foot ECG cable with adapters for connecting external ECG sources.</p>
<p>The 2D Stress Echo application provides tools for ECG-triggered acquisition, display, selection, comparison, evaluation and archiving of multiple cardiac loops during various stages of a Stress Echo examination.</p> <p>In addition, the 2D Stress Echo application has the ability to:</p> <ul style="list-style-type: none"> -Configure User-defined View names as well as User-defined Stage names. -Add a User-defined Stage during a Stress Echo protocol -Display a Status Grid for the number of acquired and selected views for each stage. -Resize the Capture ROI (region of interest). -Capture continuously for 700 or more clips.
<p>9L4 transducer supports the following features:</p> <p>B-mode Imaging</p> <ul style="list-style-type: none"> - Four fundamental frequencies: 3.0, 4.0, 6.0, 8.0 MHz - Two harmonic frequencies: H5.0, H6.0 MHz - IN Focus Technology <p>Color Doppler Imaging</p> <ul style="list-style-type: none"> - Color Doppler Velocity (CDV) Four frequencies: 2.5, 3.5, 5.0, 6.0 MHz - Doppler Tissue Velocity (DTV) and Doppler Tissue Energy (DTE) Four frequencies: 2.5, 3.5, 5.0, 6.0 MHz <p>Spectral Doppler</p> <ul style="list-style-type: none"> - CW Spectral Doppler at frequencies: 3.0, 3.5 MHz - PW Spectral Doppler at frequencies: 2.5, 3.5, 5.0 MHz <ul style="list-style-type: none"> - PW Doppler tissue imaging (DTI) at frequencies: 3.5, 5.0 MHz <p>M-mode</p> <ul style="list-style-type: none"> - Two harmonic frequencies: H5.0, H6.0 MHz - Four fundamental frequencies: 3.0, 4.0, 6.0, 8.0 MHz - Color M-mode (CDV, DTV, DTE) at frequencies: 2.5, 3.5, 5.0, 6.0 MHz

Description
RES enhanced resolution imaging Advanced SieClear™ spatial compounding offers image quality with unrivaled detail and contrast resolution. Advanced SieClear compounding is a real-time technique which applies multiple lines of sight. The combination of multiple images with different steering angles results in speckle reduction and enhanced contrast resolution. Available on the 9L4 transducer and operates on all available frequencies.