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PO# 691-B30021

## ACUSON X300 PE System -ultrasound system

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

Qty	Item Description
1	<b>ACUSON X300PE System100V-230V 17"FPD</b> The ultra-portable ACUSON X300(tm) ultrasound system, Premium Edition (PE) brings the benefits of Siemens innovative ultrasound technologies to the world of compact, mobile, high performance color Doppler ultrasound systems. The ACUSON X300 PE system combines best-in-class image quality with advanced technology and features such as a 17" monitor to meet your daily clinical needs across a comprehensive application range.
1	<b>X300 7.0 SW</b> Operating software ACUSON X300(tm) ultrasound system Premium Edition (PE) release 7.0.
1	<b>Operating Sys,USA ENG,X300 PE 7.0</b> ACUSON X300(tm) ultrasound system, premium edition (PE) product- specific operating software, control panel and detailed Instructions for Use in English.
1	<b>Cordset, 115V, G40</b> Custom cordset and plug. Valid only with 115V fuse. Cordset for use of the G40, X150, X300, X500 and G60S rev10.0 system in Brazil, Canada, Korea, Mexico, Philippines, Saudi Arabia, Taiwan, USA
1	<b>Plus Option, X300 PE</b> A beamforming hardware option that improves image quality, penetration and sensitivity for high density transducers
1	<b>GI Adv Imaging Bundle, X300 PE</b> The GI Advanced Imaging Bundle enables the following popular options in an easy to order value package:: (10133033) TGO Technology, X300 (10348229) Clarify VE, X300 (10348231) SieClear, X300 (10348230) SieScape, X300 (10427802) DTCE, X300 PE
1	<b>DICOM Bundle, X300</b> The DICOM Bundle, X300 enables comprehensive, DICOM capabilities in an easy-to-order value package and includes: (10133000) DICOM Connectivity, X300 (10133001) DICOM Worklist, X300 (10133002) DICOM MPPS, X300 (10133004) DICOM SR Cardiac, X300* (10348232) DICOM SR OB/GYN, X300* (10348233) DICOM SR Vascular, X300* * Please note that DICOM Structured Reporting (SR) is not supported on the ACUSON X300 system, R2.0 with syngo(r) Dynamics.

Qty	Item Description
3	<p><b>VF13-5 Linear Array</b></p> <p>The VF13-5 linear array transducer uses high resolution, high-density 128-element technology. On the SONOLINE G40, ACUSON X150 and ACUSON X300 system this transducer offers user-selectable MultiHertz(tm) multiple-frequency imaging, expanding its clinical versatility. Applications: Small Parts, Breast, Musculoskeletal, and Orthopedics Features include: - 2D, M-Mode frequency range: 12 - 7 MHz - Center Frequency: 8.6 MHz -THI</p>
2	<p><b>CH5-2 Curved Array Transducer</b></p> <p>The CH5-2 transducer uses Hanafy Lens transducer technology migrated from Siemens high-end ultrasound systems. This technology ensures uniform image quality throughout the field of view. MultiHertz(tm) multiple frequency imaging provides user selectable transmit frequencies for optimal resolution and penetration. The ergonomically designed transducer features microCase(tm) transducer miniaturization technology and Suppleflex(tm) transducer cables to help reduce repetitive stress injuries. Applications: adult abdomen, renal, obstetrics and gynecology. Features include: - 2D, M-Mode frequency range: 5-2 MHz - THI* frequency range:: 5-2 MHz - Doppler frequency range: 3-2 MHz - 63mm aperture available in all imaging modes - Field of view: up to 68 degrees (system dependent) (* THI is an option for G40, X150 and X300)</p>
1	<p><b>CH4-1 Needle Guide Set</b></p> <p>The dual angle hybrid-design needle guide bracket provides the ability to perform biopsy procedures. Kit contains one custom needle guide bracket and a starter box of disposable needle guide clips that support needle sizes from 2.1mm (14 gauge) to 0.6 mm (23 gauge). The needle guide bracket is reusable and can be high level disinfected using cold liquid disinfectants such as Cidex OPA and Cidex. For use with the ACUSON Antares(tm) ultrasound system CH4-1 transducer and the SONOLINE G60S(tm) r10.0, ACUSON X300(tm) ultrasound system, ACUSON X150(tm) ultrasound system, ACUSON X500(tm) ultrasound system and SONOLINE G40(tm) ultrasound systems with the CH5-2 transducer.</p>
1	<p><b>Ultrasound Apps Training 2 days included</b></p> <p>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.</p>
1	<p><b>Additional Manual for Govt-X300 5.0</b></p>
1	<p><b>One complimentary biomedical tuition is included with the purchase of this system. This training must be completed before the end of the warranty period.</b></p>

## Detailed Technical Specifications

### ACUSON X300 PE System -ultrasound system

Part No. / Product	Description
<b>10566144</b> <b>ACUSON X300PE</b> <b>System100V-230V</b> <b>17"FPD</b>	<p>The ACUSON X300 PE combines excellent imaging performance with sophisticated workflow advancements to address a wide variety of ultrasound imaging needs.</p> <p>At software version 7.0* and higher, the system includes a standard 17" monitor* and combines best-in-class image quality with advanced technology and features to meet your daily clinical needs across a comprehensive application range. It ensures higher diagnostic confidence with comprehensive clinical capabilities including high quality color Doppler, pulsed wave Doppler and optional continuous wave Doppler.</p> <p>Ultra-sensitive, wideband transducers, matched with user-selectable MultiHertz™ multiple frequency imaging, improve resolution and penetration. Depending on the transducer, the user can select up to five 2D and Tissue Harmonic Imaging (THI) frequencies and two color and spectral Doppler frequencies, expanding the clinical versatility of a single transducer, and thereby maximizing transducer investment.</p> <p>Standard features include:</p> <ul style="list-style-type: none"><li>- Tissue Harmonic Imaging (THI)</li><li>- Color Doppler</li><li>- PW Doppler</li><li>- DIMAQ-IP integrated ultrasound workstation</li><li>- CINE Review</li><li>- Multi-beam formation technology</li><li>- DTO™ Dynamic Tissue Optimization technology</li><li>- Anatomical M-mode for Cardiac exam types</li><li>- Ateaching file utility to enhance medical education</li><li>- Patient information privacy tools</li><li>- Three (3) high density array ports</li><li>- 17" monitor</li></ul> <p>The ACUSON X300 PE also supports a unique customizable control panel design with backlighting to provide optimal workflow in a wide range of clinical environments, tailored to the individual clinical user.</p> <p>In addition to the high level of standard features, the ACUSON X300 PE system offers a variety of imaging and workflow solutions.</p> <p>ACUSON X300 PE system*:</p> <p>Applications:</p> <ul style="list-style-type: none"><li>- Abdomen</li><li>- Renal</li><li>- OB/GYN</li><li>- Early Obstetrics</li><li>- Small Parts</li><li>- Musculoskeletal</li><li>- Adult Cardiac</li><li>- Adult Trans Esophageal Echo</li><li>- Intra Cardiac Echo</li><li>- Pediatric Cardiac</li><li>- Stress Echo</li><li>- Cranial</li><li>- Vascular</li></ul>

Part No. / Product	Description
<p><i>(Continued)</i>  <b>10566144</b>  <b>ACUSON X300PE</b>  <b>System100V-230V</b>  <b>17"FPD</b></p>	<ul style="list-style-type: none"> <li>- Emergency Medicine</li> </ul> <p>Purchaseable Options:</p> <ul style="list-style-type: none"> <li>- DICOM 3.0 connectivity</li> <li>- DICOM Modality Worklist</li> <li>- DICOM MPPS</li> <li>- DICOM Structured Reporting for OB/GYN</li> <li>- DICOM Structured Reporting for Cardiac</li> <li>- DICOM Structured Reporting for Vascular</li> <li>- TGO™ tissue grayscale optimization technology</li> <li>- <i>fourSight</i>™ 4D ultrasound imaging technology</li> <li>- Advanced <i>fourSight</i>™ technology</li> <li>- Stress Echo</li> <li>- QuikStart Option</li> <li>- DTI™ Doppler tissue imaging capability</li> <li>- Clarify™ vascular enhancement technology</li> <li>- SieScape™ panoramic imaging</li> <li>- SieClear™ multi-view spatial compounding</li> <li>- <i>syngo</i>® Arterial Health Package</li> <li>- <i>syngo</i>® Velocity Vector Imaging™ technology</li> <li>- <i>syngo</i>® Auto Left Heart</li> <li>- <i>syngo</i>® <i>fourSight</i>™ TEE View</li> <li>- <i>syngo</i>® Mitral Valve Assessment Package</li> <li>- Pocket Accessory</li> <li>- CARTOSOUND™ Communications</li> </ul> <p>ACUSON X300 PE system - <i>Women's Imaging</i>*:</p> <p>Applications:</p> <ul style="list-style-type: none"> <li>- Abdomen</li> <li>- Renal</li> <li>- OB/GYN</li> <li>- Early Obstetrics</li> <li>- Small Parts</li> </ul> <p>Purchaseable Options:</p> <ul style="list-style-type: none"> <li>- DICOM 3.0 connectivity</li> <li>- DICOM Modality Worklist</li> <li>- DICOM MPPS</li> <li>- DICOM Structured Reporting for OB/GYN</li> <li>- TGO™ tissue grayscale optimization technology</li> <li>- <i>fourSight</i>™ 4D ultrasound imaging technology</li> <li>- Advanced <i>fourSight</i>™ technology</li> <li>- QuikStart Option</li> <li>- DTI™ Doppler tissue imaging capability</li> <li>- Clarify™ vascular enhancement technology</li> <li>- SieScape™ panoramic imaging</li> <li>- SieClear™ multi-view spatial compounding</li> <li>- <i>syngo</i>® Velocity Vector Imaging™ technology</li> <li>- Pocket Accessory</li> </ul> <p>(*) Dependent upon hardware, options and transducers selected.</p> <p>Future performance enhancements may require software upgrades to maximize and protect your original investment over time.</p> <p>The CardioVascular Option enables continuous wave Doppler and an ECG module for Cardiac and Vascular applications that require these fundamental capabilities</p>

Part No. / Product	Description
<b>10566263</b> <b>Operating Sys,USA</b> <b>ENG,X300 PE 7.0</b>	<p>The operating system software supports standard applications, exam-specific imaging presets, measurements, pictograms, annotations, reports, worksheets and system diagnostics.</p> <p>Set includes:</p> <ul style="list-style-type: none"> <li>- Printed User and Reference manual set in English</li> <li>- 1 CD with electronic version of the User and Reference manuals</li> </ul> <p>- English control panel overlay</p>
<b>10427795</b> <b>Plus Option, X300 PE</b>	<p>The following transducers deliver enhanced performance with installation of the Plus Option: C7F2, EV9F4, C6-2, CH5-2, VF8-3, VF10-5 VF13-5, VF13-5sp, BP9-4 and C8-5.</p>
<b>10427807</b> <b>GI Adv Imaging</b> <b>Bundle, X300 PE</b>	<p>TGO™ tissue grayscale optimization technology provides one-button image optimization to improve the consistency and quality of ultrasound imaging and enhance productivity. TGO technology automatically adjusts to the tissue type being imaged and can be used with every transducer, for every exam type at every imaging frequency, including THI.</p> <p>Clarify™ vascular enhancement (VE) technology is a real-time, adaptive, pixel-by-pixel analysis implemented through a simple, time-saving user interface that provides multiple levels of clarification to optimize tissue contrast resolution and definition of both tissue and vessel according to user preference. Clarify VE technology is available on all curved and linear transducers.</p> <p>SieClear™ multi-view spatial compounding uses multiple lines of sight to increase contrast resolution and improve tissue differentiation of low contrast lesion. Tissue boundaries and interfaces appear sharper and more continuous. SieClear compounding is accessible in THI and all mixed modes and is compatible with other advanced imaging options including SieScape™ panoramic imaging, 3-Scape™ real-time 3D imaging, TGO™ ultrasound technology and Clarify™ vascular enhancement technology.</p> <p>SieScape™ panoramic imaging allows acquisition and display of grayscale panoramic images up to 60 cm in length to a maximum curvature of 360 degrees. SieScape imaging is available on all curved and linear transducers and can be displayed in full length on the monitor, rotated, zoomed or reviewed frame by frame for more detailed viewing. Measurement capability is supported.</p> <p>Dynamic TCE™ technology is an advanced proprietary real-time processing algorithm that enhances tissue contrast resolution and reduces speckle improving border definition.</p>
<b>10348552</b> <b>DICOM Bundle, X300</b>	<p>DICOM Connectivity, X300 provides digital image transfer via a DICOM network for both printing and storage. With this option installed, the ACUSON X300™ ultrasound system acts as a DICOM Storage Service Class User (SCU) and DICOM Print Service Class User, and can be connected to a DICOM color or grayscale Printer, and/or to DICOM workstation and archive devices. In-Progress Store functionality allows individual transfer during an active exam.</p> <p>DICOM Worklist, X300 allows query and direct download from HIS/RIS/CIS system of the patient work schedule to the ACUSON X300™ ultrasound system. This option allows the user to automatically populate the "New Patient" screen with patient demographic information.</p> <p>DICOM MPPS, X300 is used in conjunction with DICOM Modality Worklist to query and retrieve scheduled procedure information from a HIS and/or a RIS, and to set the status. To be compatible with this functionality, the Hospital or Departmental Information System must include a DICOM Modality Performed Procedure Step server and a DICOM Modality Worklist server.</p> <p>DICOM SR Cardiac*, DICOM SR OB/GYN *and DICOM SR* Vascular (Structured Reporting) provide a standardized measurement results/report architecture to allow for easy transfer of Cardiac, OB/GYN and Vascular measurements to offline PCs, workstations and archiving systems. DICOM Structured Reporting will automatically populate measurement results to their respective fields in an external software package.</p> <p>* Please note that DICOM Structured Reporting (SR) is not supported on the ACUSON X300 system, R2.0 with syngo® Dynamics.</p>
<b>4USSVC21</b> <b>Additional Manual for</b> <b>Govt-X300 5.0</b>	<p>p/n 10427778</p> <p>The English manual set for the ACUSON X300™ ultrasound system, premium edition includes the following in</p>

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<p><i>(Continued)</i>  <b>4USSVC21</b>  <b>Additional Manual for</b>  <b>Govt-X300 5.0</b></p>	<p>print and on disk: Instructions For Use Features and Applications Reference System Reference Electromagnetic Emissions and Immunity: Guidance and Manufacturer's Declaration</p> <p>p/n 10133030</p> <p>The Service Manual provides instructions to help users perform basic and advanced service functions for the system. Technical training is recommended to properly service the system when using advanced instructions in this manual and is available through the local Siemens Service organization for a separate charge.</p>