

SIEMENS**Siemens Medical Solutions USA, Inc.**

51 Valley Stream Parkway, Malvern, PA 19355

Fax: (704) 919-1673

SIEMENS REPRESENTATIVE

Sara Bremer - (704) 807-0474

Quote Nr:**1-3HRR00 Rev. 0****c.cam 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	14415046	c.cam Imaging System	
1	08419017	c.cam Blue Chair The c.cam' chair with its integrated arm support is designed to maximize patient comfort during the scan. It promotes simple patient setup. It has 2 positions: Patient Access: Friendly low access (23"height) eliminates the need for step stools Patient Scan: Reclined position: Increased patient comfort, which leads to decrease patient motion It supports weights up to 450 lbs.	
2	08419058	c.cam LEHR collimator - Low energy (140 keV), high resolution, parallel hole collimator - AUTOFORM Technology - Number of holes: 42928 - Sensitivity: 170 cpm/microCurie - Geometric Resolution: 6.0 mm - Weight: < 30 lbs (<14 kg)	
1	07830909	Remote Diagnostic Services Remote Diagnostic Services. A broadband connection is required for full remote diagnostic functionality and optimal system uptime.	
1	08418217	c.cam Intrinsic Bar Pattern The intrinsic bar pattern offer precise determination of camera intrinsic resolution, collimator spatial resolution, field size and linearity. It conveniently installs on the system the same way a collimator does. Bar widths: 2.5 mm, 3 mm, 3.5 mm, 4.0mm Shipping weight: < 30 lbs (<14 kg)	
1	08424223	English c.cam Lang Kit	
1	08722220	ECG Gate w/out Strip Chart Recorder ECG gating system provides display of ECG waveform and trigger indicator. Power and trigger signal connect conveniently the bottom of the Patient Bed and to the camera, eliminating cables on the floor.	
1	08419223	c.cam Co-57 Flood Source Model #3727 Small rectangular Co-57 flood source Activity: 7.5 mCi (227.5 Mbq) Active dimensions: 16.5" long 10" wide Overall dimensions: 11" long 17" wide The following license requirements are required for international orders: (1) Government seal on license document (2) Address of facility on license document (3) Valid dates of license (4) Radionuclide (& activity) approved for receipt and use	

SIEMENS

Siemens Medical Solutions USA, Inc.

51 Valley Stream Parkway, Malvern, PA 19355

Fax: (704) 919-1673

SIEMENS REPRESENTATIVE

Sara Bremer - (704) 807-0474

Extended
Price

Qty	Part No.	Item Description
1	14414937	Symbia.net Symbia.net is an economical solution for reading of SPECT and SPECT•CT studies. The system can be optionally configured with full MI processing capabilities. The Symbia.net can be configured as a client-server system by adding the Server Management option. Following PET processing packages are available for Symbia.net Server Management: - Oncology PET Processing: If the client-server system is configured with SPECT/CT processing - Cardiology PET Processing: if the client-server system is configured with a Cardiology SPECT or Cardiology SPECT/CT Engine - Neurology PET Processing: if the client server system is configured with the Neurology Engine
1	14415045	Monitor: 19 inch LCD The 19" LCD Monitor is an economic monitor solution with the following features: - 19" active display - Optimal picture resolution of 1280 x 1024 - Anti-glare panel surface - Up to 170 degree viewing angle
1	14415032	First User The first user provides a singler user license to operate Symbia.net as a workplace solution.
1	14415199	Cardiology Engine AdvSPECT Cedars The Cardiology Engine Advanced SPECT Cedars assists in the diagnosis and quantification of coronary artery disease as well as in risk stratification for acute cardiac events. The Cardiology Engine Advanced SPECT with cardio•Flash provides the ability to shorten SPECT acquisition times with syngo MI Workflows optimized for cardiology and based on Siemens' innovative Flash reconstruction techniques.
1	14415178	SPECT Cardiac Processing Processing software package that provides cardiac SPECT processing.
1	08419207	English MI WP Lang Kit The language kit includes: e.soft Getting Started Manual, e.soft User Notes and customer letter.
1	10182968	English Cedars Lang Kit
1	05245316	UPS for e.soft/c.cam (60 Hz) Uninterruptable power supply option that provides 10 minutes of back up power enabling the proper shut down of the system in the event of a power loss.
1	MI_SPEC_INIT AL_24	Initial onsite training 24 hrs
1	MI_SPECT_PM MI_SPEC_ADD	MI SPECT Project Management
1	_32	Additonal onsite training 32 hours
1	MI_SPEC_ADJ _GV_24	Initial onsite training 24 hrsGov Offset One complimentary biomedical tuition is included with the purchase of this system. This training must be completed before the end of the warranty period.
1	MISYS_BIOME D_TRN	TWO SETS OF SERVICE AND OPERATORS MANUALS GOV'T - ONLY - MI SPECT Manual Offset English c.cam GOV'T - ONLY - MI SPECT Manual Offset English MIWP GOV'T - ONLY - MI SPECT Manual Offset English Cedars
1	NU_SYS_MISC _MATL	
1	MI_SPEC_GOV _MANUAL	
1	MI_SPEC_GOV _MANUAL	
1	MI_SPEC_GOV _MANUAL	

System Total:

Detailed Technical Specifications

c.cam System

Part No. / Product	Description
14415046 c.cam Imaging System	<p>The c.cam Imaging System is a dual detector imaging system dedicated for Cardiac SPECT applications. The system incorporates an open gantry design for fast data acquisition to achieve high patient throughput. It's unique chair design allows for patient imaging in a more comfortable reclined position. It's small foot print provides for easy installation in a typical 9' x 10' room. The c.cam consists of the following components:</p> <p>Open Gantry The c.cam's open gantry and detector arm supports two detectors in a fixed 90 position. The detectors FOV is optimized for high quality cardiac imaging. It is small and patient friendly.</p> <p>Rotation range: 180 degrees</p> <p>The gantry supports both circular and non-circular orbits. Lightweight collimator design allows the user to easily remove or exchange collimators. Choice of 2 collimator types: LEAP and LEHR</p> <p>All motorized motions of the patient chair, gantry and detectors are controlled from a ergonomically designed handcontroller.</p> <p>syngo Acquisition Workplace.c.cam A The Windows XP based acquisition station provides a wide range of cardiac acquisition protocols utilizing a graphical user interface, keyboard and mouse.</p> <p>The syngo Acquisition Workplace.c.cam A provides:</p> <ul style="list-style-type: none"> - Simultaneous viewing of both detectors - Energy Window Control and Spectrum Display - Persistence scope - Immediate display capability - Local data storage - Predefined Acquisition Creation - Study Progress Display - Patient Database Management - Quality Control Tools - DICOM Networking to syngo MI Workplace <p>Acquisition Types</p> <ul style="list-style-type: none"> - Static - Dynamic/ Dynamic with R-Wave (First Pass) - Gated Planar - Tomography - Gated Tomography
07830909 Remote Diagnostic Services	<p>A broadband connection is required for full remote diagnostic functionality and optimal system uptime. The Remote Diagnostic Services option allows for remote access to your networked workstations. This service includes all the necessary hardware, software and configuration required to access your equipment remotely for the purposes of remote diagnostics. Features include:</p> <ul style="list-style-type: none"> -Image Transfer -Access to automatic Virus Protection updates -Error log retrieval -Remote Workflow revisions -Remote configuration -License management -Remote workstation control via netmeeting

Part No. / Product	Description
14414937 Symbia.net	<p>Symbia.net is a clinical workplace that offers:</p> <p>System Features:</p> <ul style="list-style-type: none"> - Workflow based architecture - DICOM networking, printing - User configurable displays - 3D Orientation - Image Fusion <p>Server Hardware</p> <ul style="list-style-type: none"> - Microsoft Windows XP SP3 - Dual Xeon multi-core CPUs - 12 GB Memory - Dual Monitor option <p>Access to reading capabilities from anywhere (requires Server Management option)</p> <ul style="list-style-type: none"> - Any standard PC or Mac with a network connection can be set up as a client (See S-text for the minimal HW requirements for the Symbia.net clients) - Up to five concurrent users can access the clinical network simultaneously - Symbia.net is configurable with advanced clinical applications, including Corridor4DM, Cedars, or Emory cardiac packages <p>Easy installation and operation</p> <ul style="list-style-type: none"> - Symbia.net easily integrates with existing cameras, RIS and PACS - A virtually unlimited number of client computers can be installed remotely (requires Server Management option) - Designed for the needs of nuclear medicine with a user friendly interface and advanced automation features <p>Optional Extensions</p> <ul style="list-style-type: none"> - Server Management option - Supports up to 5 concurrent users - 1 seat at the workplace - Up to 4 floating client licenses - Cardiology Engines - Oncology Engines - Neurology Engines - MI Processing Engine - Advanced SPECT/CT Reconstruction - MI Cardiac Process Engine
14415199 Cardiology Engine AdvSPECT Cedars	<p>The Cardiology Advanced SPECT engine provides the Cedars Cardiac SPECT Suite, a comprehensive set of quantitation program for the evaluation of SPECT Myocardial Perfusion Imaging</p> <p>The engine calculates a comprehensive set of cardiac parameters including ejection fractions, volumes, wall motion including right ventricular free wall motion in QBS, wall thickening, perfusion (%). QPS allows for the quantitation of prone SPECT data and of serial perfusion changes. Both 20 and AHA-17 segment scoring models are available. In addition to calculating an Eccentricity Index, QGS also calculates a more regional measure of LV shape known as the Shape Index. Displays include gated slices with contours, a motion frozen display which results in better resolution and contrast by eliminating motion of the cardiac cycle, interactive 3D images, and polar maps. Manual over-ride of contours and DICOM compatible output are additional features. Outputs include DICOM secondary capture files, result files as well as the ability to generate an AVI file format. The Cedars application is an OEM product developed and supported by Cedars Sinai.</p> <p><i>The engine's cardio•Flash, a three dimensional iterative reconstruction method with resolution recovery and scatter</i></p>

Part No. / Product	Description
(Continued) 14415199 Cardiology Engine AdvSPECT Cedars	<p>correction, can be used to shorten Myocardial Perfusion Imaging by as much as 50%. The reconstructed data has similar, or even better, image quality when compared to a full-time MPI scan with a conventional reconstruction using Filtered Back Projection.</p> <p>To aid in patient throughput, this engine includes complete <i>syngo</i> MI Workflows, specifically designed to acquire MPI SPECT scans with half-time acquisition parameters and optimized reconstruction settings and filters.</p> <p>Applications include: Cedars SPECT Suite and <i>cardio</i>•Flash</p>
14415178 SPECT Cardiac Processing	<p>Cardiac Processing (Autocardiac Activity) Features</p> <ul style="list-style-type: none"> - Process up to 4 series simultaneously - Mixed Non-Gated, Gated, Profile series simultaneously Profile simultaneous AC and Non-AC Multi-Isotope support (6 per series) - Separate reconstruction parameters per series / isotope 3D Elliptical Masking - Filtered Backprojection, Iterative-W, OSEM 2D, or OSEM 3D (optional) Reconstructions - Coincidence Reconstruction - True 3D Reconstruction Zoom - Trial Mode Reconstruction - Interactive Filter Tool - Interactive Masking / Centering <p>General Reconstruction (TOMO Reconstruction Activity)</p> <ul style="list-style-type: none"> - Process up to 5 series simultaneously - Multi-Isotope support (6 per series) - Standard Tomography and Dynamic Tomography reconstructions - Separate reconstruction parameters per series / isotope - 3D Elliptical Masking - Filtered Backprojection, OSEM 2D or 3D (optional) Reconstructions - 3D Reconstruction Zoom - Trial Mode Reconstruction - Interactive Filter Tool Interactive Masking / Centering - Chang's Attenuation Correction <p>Quality Control (Quality Control Activity) Features</p> <ul style="list-style-type: none"> - Sinogram, Linogram, and Summed Image - Cine with reference line - Automatic and Manual Motion Correction - Static X / Y / Copy / Paste - Dynamic X / Y / Copy / Paste - Gated Histogram Review - Tomo X / Copy / Paste - Dynamic Tomo Repeat X / Copy / Paste - Dynamic Tomo X / Copy / Paste / Repeat Rejection - - <p>Image Fusion</p> <ul style="list-style-type: none"> - Automatic adjustment based on pixel size - Volume translation and rotation operations - Manual, interactive volume manipulations - Manually enter desired translation and rotation parameters - Adjustable alpha blending display

SIEMENS

Siemens Medical Solutions USA, Inc.

51 Valley Stream Parkway, Malvern, PA 19355

Fax: (704) 919-1673

SIEMENS REPRESENTATIVE

Sara Bremer - (704) 807-0474

Part No. / Product	Description
(Continued) 14415178 SPECT Cardiac Processing	<ul style="list-style-type: none"> - Selectable viewing angles - Choice of output matrix size (64, 128, or 256) - Landmark registration technique <p>Organ Based Processing</p> <p>Cardiac Planar Gated Blood Pool</p> <ul style="list-style-type: none"> - Left and Right Ventricular EF Analysis - Regional EF Analysis - Automated Image Filtering - Automatic or Manual ROI determination - Functional Image Creation - Curve Analysis - Filling and Emptying Rate Analysis <p>Shunt Analysis</p> <ul style="list-style-type: none"> - Automatic Composite Creation - Curve Smoothing and Fitting Options - Integral Calculation for Patient and Shunt Curve - Shunt Qp/Qs via Area Method - Shunt Qp/Qs via Height Method <p>Optional Cardiac Packages</p> <ul style="list-style-type: none"> - Corridor4DM - Cedars Cardiac Suite - Emory Cardiac Toolbox - cardio•Flash <p>Image Manipulation</p> <ul style="list-style-type: none"> - Series Filter - Series Arithmetic - Series Reformat - Series ROI & Curve
05245316 UPS for e.soft/c.cam (60 Hz)	<p>Specifications:</p> <p>1.4 KVA</p> <p>Input configuration: 120 VAC, 5-15P Output configuration: 120 VAC, (6) 5-15R</p>
MI_SPEC_INITIAL_24 Initial onsite training 24 hrs	<p>Up to (24) hours of on-site clinical education training, scheduled consecutively (Monday – Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist. Uptime Clinical Education phone support is provided during the warranty period for specified posted hours. This educational offering must be completed (12) months from install end date. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.</p>
MI_SPEC_PM MI SPECT Project Management	<p>A Siemens Project Manager (PM) will be the single point of contact for the implementation of your Siemens equipment. The assigned PM will work with the customer's facilities management, architect or building contractor to assist you in ensuring that your site is ready for installation. Your PM will provide initial and final drawings and</p>

SIEMENS

Siemens Medical Solutions USA, Inc.

51 Valley Stream Parkway, Malvern, PA 19355

Fax: (704) 919-1673

SIEMENS REPRESENTATIVE

Sara Bremer - (704) 807-0474

Part No. / Product	Description
(Continued) MI_SPECT_PM MI SPECT Project Management	will coordinate the scheduling of the equipment, installation, and rigging, as well as the initiation of on-site clinical education.
MI_SPEC_ADD_32 Additonal onsite training 32 hours	Up to (32) hours of on-site clinical education training, scheduled consecutively (Monday – Friday) during standard business hours for a maximum of (4) imaging professionals. Training will cover agenda items on the ASRT approved checklist if applicable. This educational offering must be completed (12) months from date of purchase order. If training is not completed within the applicable time period, Siemens obligation to provide the training will expire without refund.