

100622 iE33 Ultrasound System

Line #	Part #	Description	Qty	Each	Price
1	**NNAP008	iE33 Vision 2011 3D xMATRIX	1		
		Intelligent Design Ergonomics: Unique human-centered design for comfort and convenience Fully articulating flicker-free 20-inch high resolution flat panel display with nearly infinite positioning adjustment Fully articulating control panel, including height, swivel, and slide Easy access transducer connectors and integrated cable storage Digitally enhanced 8 speaker high-fidelity stereo audio Integrated footrest Integrated storage shelves 4 wheel swivel and swivel/brake lock control Architecture xSTREAM system architecture with capability of processing multiple data streams simultaneously built for 2D, Panoramic, MPR, Live xPlane and Live 3D Next generation digital broadband acoustic beamforming, built for latest pulse shaping and coding techniques Dynamically scalable digital channels up to 144,000, designed to accommodate next generation of high frequency imaging and xMATRIX array configurations High-bit, low noise, digital circuitry with exclusive adaptive S/N achieves system dynamic range up to 180dB New Adaptive Broadband flow imaging automatically adjusts bandwidth for optimal flow sensitivity and resolution Advanced XRES Adaptive Image Processing for noise and artifact reduction to improve tissue conspicuity Fully independent, multiple mode Triplex operation Transducers Supports new Explora family of transducers that feature: Ergonomic designs with lightweight flexible cables and longer cables for some transducers New low-loss technology for better penetration with fewer artifacts Breakthrough frequency bandwidths and array configurations Intelligent Control Interface High resolution interactive graphical color touch panel with adjustment for various ambient light conditions Easy access primary controls with Tri-state back lighting and multi-function controls Control panel operation of on-board peripheral devices Pull out alphanumeric keyboard for manual data entry User interface configurable for languages Automation iSCAN intelligent one-button optimization for adaptive gain compensation iFOCUS intelligent focusing capability for one-button optimization of focal range position iOPTIMIZE intelligent optimization for one-button push that automatically adapts system			

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performance for:
different patient size
different flow states
High-Q Automatic Doppler Analysis
Intelligent Tissue Specific
Applications Programs
Application-specific and User
Definable Quicktext Automatic
Annotation
QuickSAVE User Defined Programs (up to 45 per transducer)

Data

On-board workstation-class data management with thumbnail previews and storage of images, loops, and reports|
NetLink/DICOM 3.0 provides network print and store, commit, modality worklist, and structured reporting for echo, pediatrics and vascular
Retrospective and prospective clip capture to internal drive or removable media
Integrated DVD/CD burning capability for storage of DICOM images (includes DICOM viewer) or export in JPEG and .avi for PC compatibility
DICOM 3.0 Print and Media Store capability to internal drive or DVD/CD, network devices.
USB port for import/export of DICOM images (includes DICOM viewer) and export of PC files.

Other Core Features

Color Power Angio
Tissue Doppler Imaging
Cardiac Protocol - Stress Echo, with Defer Selection and Live Compare functions
Tissue Harmonics and Pulse Inversion Harmonic Imaging
2D, M-Mode, Pulsed, High PRF,
Color Flow Doppler
Duplex CW Doppler
ECG capability
Cineloop Image, M-Mode and Doppler Review
High Definition Write Zoom and Read Zoom with pan features
Chroma Imaging
Measurement tools including: distance, depth, area, and circumference
Volume Flow Measurements
User Defined Calculations
Application-specific Body Mark selections
Alt Print Control to independently control 3 OEMs
Advanced XRES adaptive real-time image processing
SonoCT Real Time Compound Imaging
Temporary ID

SmartExam

SmartExam system-guided protocols with new features that include exam record and automatic mode switching to greatly improve workflow efficiencies

Live 3D

Provides true volume rendered, real-time 3D and Live xPlane imaging using supported xMatrix array transducers. Includes multiple vision settings to enhance image resolution and depth perception. Provides option to trade off volume size and frame rate. Education included with Live 3D software expires 1 year from equipment delivery.

2	**NUSB255	Performance Clinical Bundle	1
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Includes Pediatric, Adult and Vascular clinical options

Pediatric Echo clinical option

- Tissue Specific imaging software for specific transducers in pediatric cardiac ultrasound applications
- Display optimization software with Tissue Specific presets for pediatric cardiac imaging and Doppler applications
- Unique Analysis software package includes a dedicated pediatric cardiac imaging protocol and report, as well as fetal echo analysis
- Allows operation of S8-3, S12-4, S5-1, C5-1, C5-2, D2cwc, D5 cwc, S7-3t MiniMulti TEE and X7-2 transducers

Adult Echo clinical option

- Tissue Specific imaging software for specific transducers in adult cardiac ultrasound applications
- Display optimization software with Tissue Specific presets for adult cardiac imaging and Doppler applications
- Analysis software package includes a cardiac imaging protocol and report
- Allows operation of S8-3, S12-4, S5-1, L11-3, X3-1, X7-2, X7-2t, S7-2omni, Omni III, S7-3t, MiniMulti, D2cwc, D5cwc and L15-7io transducers

Vascular clinical option

- Tissue Specific imaging software for specific transducers in vascular ultrasound applications
- Display optimization software with Tissue Specific presets for vascular imaging and Doppler applications, including TCD and trans-orbital
- Analysis software package includes a vascular imaging protocol and report.
- Provides vascular reporting and allows operation of L8-4, L11-3, L9-3, C5-1, C5-2, C8-5, S5-1 D2cwc, D5cwc, D2tcd and L15-7io transducers

3 ****NUSB362 3D Quantification Adv Bundle 1**

Includes Cardiac 3DQ Basic Plug-in and Cardiac 3DQ Advanced Plug-in

Cardiac 3D Quantification (3DQ) Plug-in

Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets from the Philips Live 3D systems;

Offers viewing, cropping, slicing and quantification including distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations;

3DQ also provides Multiplanar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 3D iCrop tools.

Cardiac 3DQ Advanced Plug In

Provides display & manipulation of dynamic three-dimensional rendering and left ventricular (LV) volumes from the Philips Live 3D systems;

Displays 3D Full volume renderings in grayscale or advanced colorization (map H);

MultiPlanar Reconstruction (MPR) views provides unlimited anatomical planes from 3D volume;

New iSlice generation run in the 3D viewer and is compatible with all Philips Live 3D dataset including color data, provides highly flexible short and long axis slicing tool and display up to 4x4 equally spaced MPR views to facilitate LV function visualization assessment;

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Line #	Part #	Description	Qty	Each	Price
		<p>Measurements of LV endocardial Volumes, Stroke Volume (SV) and true 3D ejection fraction (EF) using a semi-automated border detection in 3D space;</p> <p>iCrop is also available allowing easy to use controls to access the structural information within the dataset;</p> <p>Computes global and regional LV volumes based on ACC 17 segments model;</p> <p>Displays global LV volume waveform and provides selective display of 17 regional volume waveforms;</p> <p>Offers timing assessment for each 17 minimal regional volumes and determine a synchronicity index for all volume segments or a user-selectable group of volume segments;</p> <p>Provides comprehensive report with summary of synchronicity indexes and displays regional Timing and Radial Excursion Parametric Images in Bull's eye representation.</p>			
4	**NUSB364	<p>2D Quant Advanced Bundle</p> <p>Includes: ROI Plug-in, IMT Plug-in, CMQ Plug-in and Strain Quantification Plug-in</p> <p>Region of Interest (ROI) Quantification Plug-in</p> <p>Designed to increase the consistency and reliability of acoustic measurements, while reducing the effort required to successfully carry out ROI analysis for contrast imaging, tissue analysis and color Doppler. On compatible files calculates Color Mean and Standard Deviation, Echo mean and Standard Deviation, VI, FI, VFI. Enables user to apply motion compensation algorithm.</p> <p>Intima Media Thickness (IMT) Quantification Plug-In</p> <p>Provides automated measurements of intima media thickness in carotids and other superficial vessels;</p> <p>Eliminates the laborious process of manually positioning cursors, minimizing the time needed to complete an IMT study.</p> <p>Cardiac Motion/Mechanics Quantification (CMQ) Plug-in</p> <p>Cardiac Motion Quantification (CMQ) is based on 2D speckle tracking technology, CMQ provides a method for assessing global and regional cardiac function. It offers a suite of measurements and parametric displays to analyze trans-myocardial mechanics without Tissue Doppler imaging angle dependency limitations. Using the 17-segment ASE left ventricular model, CMQ provides additional information for many clinical applications such as ventricular wall motion and mechanical synchrony assessments.</p> <p>The excellent 2D image quality provided by PureWave crystal technology allows robust multi-cycle tracking of ventricular transmural layers. You can place and observe tracking points and edit them individually at any time. Multi-directional strain computations can be derived from longitudinal, circumferential, and radial strain measurements.</p> <p>CMQ also offers the unique "free strain" feature. This easy, quick, and accurate method provides the ability to assess user-defined local velocities, displacement, and deformation using an unlimited directional chords display technique.</p> <p>Cardiac Motion Quantification (CMQ) is based on 2D speckle tracking technology, CMQ provides a method for assessing global and regional cardiac function. It offers a suite of measurements and parametric displays to analyze trans-myocardial mechanics without Tissue Doppler imaging angle dependency limitations. Using the 17-segment ASE left ventricular model, CMQ provides additional information for many clinical applications such as ventricular wall motion and mechanical synchrony assessments.</p> <p>The excellent 2D image quality provided by PureWave crystal technology allows robust multi-cycle tracking of ventricular transmural layers. You can place and observe tracking points and edit them individually at any time. Multi-directional strain computations can be derived from longitudinal, circumferential, and radial strain measurements.</p> <p>CMQ also offers the unique "free strain" feature. This easy, quick, and accurate method provides the ability to assess user-defined local velocities, displacement, and deformation using an unlimited directional chords display technique.</p> <p>The CMQ plugin also provides TMAD (Tissue Motion Annular Displacement). TMAD provides you with a validated, ultrafast, reproducible and image-quality independent method to assess global left ventricular systolic and diastolic function.</p>	1		

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		Strain Quantification (SQ) Plug-in Used in the evaluation of regional myocardial function; Measures the myocardial velocity TDI data set and derives the displacement, strain and strain rate along user-defined M-Lines; Includes ability to overlay opening and closing of aortic and mitral valves on SQ curves to evaluate Left Ventricle mechanical events; User-selectable waveform display makes SQ curves easier to read.			
5	**FUS7301	D2cwc Static Transducer	1		
		Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications			
6	**FUS7445	X5-1 xMatrix Transducer	1		
		Latest generation xMATRIX transducer with PureWave Crystal Technology. xMATRIX transducer with 5 to 1 MHz extended operating frequency range for adult echo applications in 2D, Live xPlane and Live 3D modes. Highly-functional, ergonomic design that operates in all common imaging modes, making it practical for everyday use.			
7	**FUS7000	English Manual	1		
		Operation Manual			
8	**FUS7000	English Manual	1		
		Operation Manual			
9	**NNAP126	QLAB 9.0 NA GI/ Shs Bun	1		
		Includes QLAB Core Module, Intima Media Thickness (IMT) Quantification Plug-in, Region of Interest (ROI) Quantification Plug-in, Cardiac Parametric (PQ) Quantification Plug-in, Strain (SQ) Quantification Plug-in, Cardiac 2D Quantification (2DQ) Plug-in, Cardiac 3D Quantification (3DQ), Cardiac 3DQ Advanced Plug-in, Mitral Valve Quantification (MVQ) Plug-in, GI 3D Quantification (GI 3DQ) Plug-in, MicroVascular Imaging (MVI) plug-in, Elastography Quantification (EQ) plug-in and CMQ (Cardiac Motion /Mechanics Quantification Plug-in).			
		QLAB Core Module QLAB is designed for ultrasound clinicians who require sophisticated analysis of image data acquired on Philips ultrasound systems. A large number of Plug-ins is available, offering a variety of powerful 2D/3D advanced quantitative capabilities. All Plug-ins require the QLAB Core Module.			
		QLAB core module provides 2D viewer by default. The 3D Viewer comes with the 3D plug-ins when ordered. QLAB Core Module functions include review, deletion and quantification of Philips iE33, iU22, CX50, HD15, HD11, HD7, SONOS, HDI and EnVisor C.0 image files; PC Graphic image/movie files creation in BMP, TIFF, JPEG and AVI; Ability to remove patient information from QLAB all screens and prior exporting new PC files; Export of quantification data into Excel-compatible spreadsheet formats; Built-in on-line help in multiple languages. Ultrasound data can be sent to QLAB via DICOM network connection, MOD/CD/DVD media or USB Flash Drive/Self-powered MiniDisk devices.			
		Intima Media Thickness (IMT) Quantification Plug-In Provides automated measurements of intima media thickness in carotids and other superficial vessels; Eliminates the laborious process of manually positioning cursors, minimizing the time needed to complete an IMT study.			

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Compatible with Philips iE33, iU22, HD15, HD11, HD7, EnVisor C.0, SONOS and HDI systems.

Region of Interest (ROI) Quantification Plug-in

On compatible files calculates Color Mean and Standard Deviation, Echo mean and Standard Deviation, VI, FI, VFI. Enables user to apply motion compensation algorithm. Provides basic trending capabilities (off cart only).

Compatible with Philips iE33, iU22, CX50, HD15, HD11, HD7, EnVisor C.0, SONOS and HDI systems.

Cardiac Parametric Quantification (PQ) Plug-In

Allows advanced review and analysis of contrast intensities within the heart; Provides color-coded representation of contrast intensity and replenishment rate based on either Log or linear scaling.

Compatible with iE33, SONOS and HDI systems.

Strain Quantification (SQ) Plug-in

Used in the evaluation of regional myocardial function; assessment of synchronicity and guidance during bi-ventricular pacing procedure; Measures the myocardial velocity TDI data set and derives the displacement, strain and strain rate along user-defined M-Lines.

Compatible with iE33, iU22, CX50, HD15, HD11, SONOS and HDI systems.

2D Quantification (2DQ) Plug-in

Display of 2D ultrasound images;
Semi-automated border detection for cardiac chambers and vessel cavities;
Computes Areas, Volumes and advanced parameters for LV systolic and diastolic function including, LV Ejection Fraction (EF) and Fractional Area Change (FAC);
The Peak Ejection Rate (PER), Peak Rapid Filling Rate (PRFR) and Atrial Filling Fraction (AFF) are also reported;
Color Kinesis (CK) tool for provides color-coded visualization of global and regional wall motion;
TMAD allows visualization and quantification of Atrio-Ventricular Annulus planes Motion in order to assess cardiac global function in fast and reproducible way to facilitate trending report.
Compatible with Philips iE33, iU22, CX50, HD15 and HD11 systems.

Cardiac 3D Quantification (3DQ) Plug-in

Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets from the iE33, iU22 and SONOS 7500 Live 3D systems;
Offers viewing, cropping, slicing and quantification including distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations;
3DQ also provides Multiplanar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 3D iSlice generation.

Compatible with Philips iE33, iU22 and SONOS7500 systems.

Advanced 3D Quantification (3DQA) Plug-in

Extends the diagnostic power of Live 3D Echo by providing the first semi-automated, on-cart and off-cart analysis of true LV volumes—using all the voxels to generate a full 3D endocardial border; Cardiac 3D Quantification Advanced (3DQ Advanced) revolutionizes echo quantification and extends the diagnostic power of Live 3D echo by providing the first semi-automated, on-cart and

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off-cart analysis of true LV volumes—using all the voxels to generate a full 3D endocardial border. This is a true 3D border with higher accuracy and less dependency on LV shape assumptions than conventional methods, which rely on sparse view analysis.

3DQ Advanced waveform display provides accurate data for assessing global function based on LV volume, ejection fraction and stroke volume. Additionally, 3DQ Advanced allows simultaneous display of 17 regional waveforms, enabling temporal comparisons between segments.

MultiPlanar Reconstruction (MPR) views provides unlimited anatomical planes from 3D volume; New iSlice generation run in the 3D viewer and is compatible with all Philips Live 3D dataset including color data, provides highly flexible short and long axis slicing tool and display up to 4x4 equally spaced MPR views to facilitate LV function visualization assessment;

Measurements of LV endocardial Volumes, Stroke Volume (SV) and true 3D ejection fraction (EF) using a semi-automated border detection in 3D space;

Computes global and regional LV volumes based on ACC 17 segments model;

Displays global LV volume waveform and provides selective display of 17 regional volume waveforms;

Offers timing assessment for each 17 minimal regional volumes and determine a synchronicity index for all volume segments or a user-selectable group of volume segments;

Provides comprehensive report with summary of synchronicity indexes and displays regional Timing and Radial Excursion Parametric Images in Bull's eye representation.

iCrop capabilities with the 3D volumes.

Mitral Valve Quantification (MVQ) Plug-in

The Mitral Valve Quantification plug-in (MVQ) adds precise 2D and 3D quantification of the mitral valve anatomy and associated structures based on data acquired with Philips Live 3D Echo and the X7-2t transesophageal transducer;

Based on the precise Live 3D TEE information, the MVQ plug-in provides a clinical decision support tool to improve diagnostic confidence, surgical planning, communication between clinicians and for the patient, and follow-up care.

Compatible with the Philips iE33 system and Live3D TEE Transducer.

GI 3DQ Plug-In

Review and display 3D data sets from the Philips iU22, iE33 and HD11 systems;

Includes MPR (Multiplanar Reconstruction) capability;

Can display as 1-up (full volume), 4-up (volume/MPR), or Direct iSlice display);

Also provides MPR rotation, basic crosshair control, rotation and movement; crosshair and MPR border graphics controls, pan and zoom controls, and export of BMP, JPEG, TIFF and AVI files;

Rotation speed control, Elevation resize for freehand volumes, Linear Measurements, Ellipse Measurements, Stacked Contour Measurements, Region of Interest (ROI) Analysis;

Works with Matrix and Mechanical Volume Transducers.

MicroVascular Imaging (MVI) Plug-in

MVI uses specially designed post-processing software to map contrast agent progression. This software plug-in measures changes in the image from frame to frame, suppressing background tissue signals and capturing additional contrast data. The additional data obtained using MVI dramatically enhances vessel conspicuity.

Elastography Quantification (EQ) Plug-in

Perform parametric imaging and strain ratio analysis. Parametric imaging calculates relative strain with respect to a user defined reference region. Strain ratio allows calculation of relative strain of two regions of interest over time.

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Cardiac Motion/Mechanics Quantification Plug-in

Based on 2D speckle tracking technology, CMQ provides a method for assessing global and regional cardiac function. It offers a suite of measurements and parametric displays to analyze trans-myocardial mechanics without Tissue Doppler imaging angle dependency limitations. Using the 17-segment ASE left ventricular model, CMQ provides additional information for many clinical applications such as ventricular wall motion and mechanical synchrony assessments.

Compatible with the Philips iE33, iU22, CX50, HD15 systems files.

PC requirements for all QLAB plug-ins:

- Processor: Intel Core 2/Xeon, AMD Athlon 64/Opteron or greater
- Operating System:
 - Windows XP Pro Service Pack 3, 32-bit
 - Windows 2003 Server, 32-bit
 - Windows 2008 Server R2, 32-bit
 - Windows Vista, 32-bit
 - Windows 7, 32-bit or 64-bit
- Memory: 2 GB RAM
- Graphics Card: 32 MB or greater with H/W accelerated OpenGL support and Pixel Shader 3.0 (Intel video cards may work but are not supported)
- Hard Drive: 80 GB HD with 7200 RPM
- Monitor: Minimum 1024 x 768 resolution (SVGA) and capable of 24-bit or 32-bit color display
- Media:
 - CD-ROM/DVD Drive for transferring files from iE33, iU22, HD11 XE, HD11, HD15, HD9, CX50 and EnVisor ultrasound systems
 - 640 MB 3.5-in magneto-optical drive for transferring files from HDI ultrasound systems
 - 1.2 to 2.3 GB 5.25-in magneto-optical drive for transferring files from SONOS ultrasound systems
 - USB port for transferring files from iE33, iU22, HD9, HD15, and CX50 ultrasound systems
- Mouse with a scroll wheel and a standard Microsoft keyboard

10	**FNA8170	1 Day PAS Onsite	2		
1 Day PAS Onsite - Ultrasound system or upgrade onsite training provided by a PAS (Product Applications Specialist) for specific system applications or upgrades; not per modality. <i>Education is provided Monday - Friday during normal business hours.</i> Note: Philips Healthcare personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. The training sessions should be attended by the appropriate healthcare professional as identified by the department director. <i>Repeat training for staff non-attendance will not be accepted.</i> Site must be patient-ready to meet training expectations. All onsite training day expires within 90 days from system or upgrade installation date. Exceptions are for 3D Stress onsite training (which expires 9 months from system or upgrade installation date) and Fusion & Needle Navigation onsite training (which expires 180 days from system or upgrade installation date).					

11	**FNA8175	3 Day ENT 3DU w/Travel	1		
3 Day Entitlement 3D University with Travel - A variety of C/V, Vascular, GI and WHC University course offerings are available to meet your clinical educational needs. These courses range from one to three days in length and offer a wide range of content matter. Please refer to the course catalog for a complete listing of all university courses that you can choose from. The 3 Day ENT 3D University Tuition includes both the tuition and the corresponding travel package.					

Entitlement University Tuitions expire within 365 days from system or upgrade installment date. Due to travel and scheduling requirements, a twenty-one (21) day notification of cancellation is required or training / education entitlements will be forfeited. Curriculum is subject to change without notice.

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		Travel & Accommodations for one (1) registered attendee. Includes one (1) participant's airfare from a North American customer location to a Philips North America Ultrasound Clinical Education training location with modest lodging, ground transportation and meal expenses for up to 3 days. Breakfast/dinner are provided by the hotel and lunch/breaks are catered by Philips Healthcare. All other expenses will be the responsibility of the attendee (ie. Baggage fees, meals while traveling, transportation to and from customer's home airport). Details are provided during the scheduling process.			
12	**FNA8173	2 Day ENT ACT w/Travel	1		
		2 Day Entitlement ACT with Travel- The 2 Day Advanced Customer Training (ACT) course with travel consists of advanced intensive training on the selected ultrasound system and includes the corresponding travel package.			
		Entitlement Advanced Customer Training (ACT) Tuitions expire within 180 days from system or upgrade installment date. Due to travel and scheduling requirements, a twenty-one (21) day notification of cancellation is required or training / education entitlements will be forfeited. Curriculum is subject to change without notice.			
		Travel & Accommodations for one (1) registered attendee. Includes one (1) participant's airfare from a North American customer location to a Philips North America Ultrasound Clinical Education training location with modest lodging, ground transportation and meal expenses for 2 days. Breakfast/dinner are provided by the hotel and lunch/breaks are catered by Philips Healthcare. All other expenses will be the responsibility of the attendee (ie. Baggage fees, meals while traveling, transportation to and from customer's home airport). Details are provided during the scheduling process.			
13	**FNA8204	1st SVC Manual for Gov	1		
14	SP019	Trade in Allowance	1		
		Customer represents and warrants that (i) Customer has, and shall have when title passes, good and marketable title to the equipment being traded in and (ii) has the authority to effect such trade in.			
		Product: 795052 iE33 Ultrasound System			
		Serial Number: 02R8PJ			
		Manufacturer: PHILIPS HEALTHCARE			

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1	**NNAP008	iE33 Vision 2011 3D xMATRIX	1		
		Intelligent Design Ergonomics: Unique human-centered design for comfort and convenience Fully articulating flicker-free 20-inch high resolution flat panel display with nearly infinite positioning adjustment Fully articulating control panel, including height, swivel, and slide Easy access transducer connectors and integrated cable storage Digitally enhanced 8 speaker high-fidelity stereo audio Integrated footrest Integrated storage shelves 4 wheel swivel and swivel/brake lock control Architecture xSTREAM system architecture with capability of processing multiple data streams simultaneously built for 2D, Panoramic, MPR, Live xPlane and Live 3D Next generation digital broadband acoustic beamforming, built for latest pulse shaping and coding techniques Dynamically scalable digital channels up to 144,000, designed to accommodate next generation of high frequency imaging and xMATRIX array configurations High-bit, low noise, digital circuitry with exclusive adaptive S/N achieves system dynamic range up to 180dB New Adaptive Broadband flow imaging automatically adjusts bandwidth for optimal flow sensitivity and resolution Advanced XRES Adaptive Image Processing for noise and artifact reduction to improve tissue conspicuity Fully independent, multiple mode Triplex operation Transducers Supports new Explora family of transducers that feature: Ergonomic designs with lightweight flexible cables and longer cables for some transducers New low-loss technology for better penetration with fewer artifacts Breakthrough frequency bandwidths and array configurations Intelligent Control Interface High resolution interactive graphical color touch panel with adjustment for various ambient light conditions Easy access primary controls with Tri-state back lighting and multi-function controls Control panel operation of on-board peripheral devices Pull out alphanumeric keyboard for manual data entry User interface configurable for languages Automation iSCAN intelligent one-button optimization for adaptive gain compensation iFOCUS intelligent focusing capability for one-button optimization of focal range position iOPTIMIZE intelligent optimization for one-button push that automatically adapts system			

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performance for:
different patient size
different flow states
High-Q Automatic Doppler Analysis
Intelligent Tissue Specific
Applications Programs
Application-specific and User
Definable Quicktext Automatic
Annotation
QuickSAVE User Defined Programs (up to 45 per transducer)

Data

On-board workstation-class data management with thumbnail previews and storage of images, loops, and reports|
NetLink/DICOM 3.0 provides network print and store, commit, modality worklist, and structured reporting for echo, pediatrics and vascular
Retrospective and prospective clip capture to internal drive or removable media
Integrated DVD/CD burning capability for storage of DICOM images (includes DICOM viewer) or export in JPEG and .avi for PC compatibility
DICOM 3.0 Print and Media Store capability to internal drive or DVD/CD, network devices.
USB port for import/export of DICOM images (includes DICOM viewer) and export of PC files.

Other Core Features

Color Power Angio
Tissue Doppler Imaging
Cardiac Protocol - Stress Echo, with Defer Selection and Live Compare functions
Tissue Harmonics and Pulse Inversion Harmonic Imaging
2D, M-Mode, Pulsed, High PRF,
Color Flow Doppler
Duplex CW Doppler
ECG capability
Cineloop Image, M-Mode and Doppler Review
High Definition Write Zoom and Read Zoom with pan features
Chroma Imaging
Measurement tools including: distance, depth, area, and circumference
Volume Flow Measurements
User Defined Calculations
Application-specific Body Mark selections
Alt Print Control to independently control 3 OEMs
Advanced XRES adaptive real-time image processing
SonoCT Real Time Compound Imaging
Temporary ID

SmartExam

SmartExam system-guided protocols with new features that include exam record and automatic mode switching to greatly improve workflow efficiencies

Live 3D

Provides true volume rendered, real-time 3D and Live xPlane imaging using supported xMatrix array transducers. Includes multiple vision settings to enhance image resolution and depth perception. Provides option to trade off volume size and frame rate. Education included with Live 3D software expires 1 year from equipment delivery.

2	**NUSB255	Performance Clinical Bundle	1	
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Includes Pediatric, Adult and Vascular clinical options

Pediatric Echo clinical option

- Tissue Specific imaging software for specific transducers in pediatric cardiac ultrasound applications
- Display optimization software with Tissue Specific presets for pediatric cardiac imaging and Doppler applications
- Unique Analysis software package includes a dedicated pediatric cardiac imaging protocol and report, as well as fetal echo analysis
- Allows operation of S8-3, S12-4, S5-1, C5-1, C5-2, D2cwc, D5 cwc, S7-3t MiniMulti TEE and X7-2 transducers

Adult Echo clinical option

- Tissue Specific imaging software for specific transducers in adult cardiac ultrasound applications
- Display optimization software with Tissue Specific presets for adult cardiac imaging and Doppler applications
- Analysis software package includes a cardiac imaging protocol and report
- Allows operation of S8-3, S12-4, S5-1, L11-3, X3-1, X7-2, X7-2t, S7-2omni, Omni III, S7-3t, MiniMulti, D2cwc, D5cwc and L15-7io transducers

Vascular clinical option

- Tissue Specific imaging software for specific transducers in vascular ultrasound applications
- Display optimization software with Tissue Specific presets for vascular imaging and Doppler applications, including TCD and trans-orbital
- Analysis software package includes a vascular imaging protocol and report.
- Provides vascular reporting and allows operation of L8-4, L11-3, L9-3, C5-1, C5-2, C8-5, S5-1 D2cwc, D5cwc, D2tcd and L15-7io transducers

3 ****NUSB362 3D Quantification Adv Bundle 1**

Includes Cardiac 3DQ Basic Plug-in and Cardiac 3DQ Advanced Plug-in

Cardiac 3D Quantification (3DQ) Plug-in

Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets from the Philips Live 3D systems;

Offers viewing, cropping, slicing and quantification including distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations;

3DQ also provides Multiplanar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 3D iCrop tools.

Cardiac 3DQ Advanced Plug In

Provides display & manipulation of dynamic three-dimensional rendering and left ventricular (LV) volumes from the Philips Live 3D systems;

Displays 3D Full volume renderings in grayscale or advanced colorization (map H);

MultiPlanar Reconstruction (MPR) views provides unlimited anatomical planes from 3D volume;

New iSlice generation run in the 3D viewer and is compatible with all Philips Live 3D dataset including color data, provides highly flexible short and long axis slicing tool and display up to 4x4 equally spaced MPR views to facilitate LV function visualization assessment;

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Line #	Part #	Description	Qty	Each	Price
		<p>Measurements of LV endocardial Volumes, Stroke Volume (SV) and true 3D ejection fraction (EF) using a semi-automated border detection in 3D space;</p> <p>iCrop is also available allowing easy to use controls to access the structural information within the dataset;</p> <p>Computes global and regional LV volumes based on ACC 17 segments model;</p> <p>Displays global LV volume waveform and provides selective display of 17 regional volume waveforms;</p> <p>Offers timing assessment for each 17 minimal regional volumes and determine a synchronicity index for all volume segments or a user-selectable group of volume segments;</p> <p>Provides comprehensive report with summary of synchronicity indexes and displays regional Timing and Radial Excursion Parametric Images in Bull's eye representation.</p>			
4	**NUSB364	<p>2D Quant Advanced Bundle</p> <p>Includes: ROI Plug-in, IMT Plug-in, CMQ Plug-in and Strain Quantification Plug-in</p> <p>Region of Interest (ROI) Quantification Plug-in</p> <p>Designed to increase the consistency and reliability of acoustic measurements, while reducing the effort required to successfully carry out ROI analysis for contrast imaging, tissue analysis and color Doppler. On compatible files calculates Color Mean and Standard Deviation, Echo mean and Standard Deviation, VI, FI, VFI. Enables user to apply motion compensation algorithm.</p> <p>Intima Media Thickness (IMT) Quantification Plug-In</p> <p>Provides automated measurements of intima media thickness in carotids and other superficial vessels;</p> <p>Eliminates the laborious process of manually positioning cursors, minimizing the time needed to complete an IMT study.</p> <p>Cardiac Motion/Mechanics Quantification (CMQ) Plug-in</p> <p>Cardiac Motion Quantification (CMQ) is based on 2D speckle tracking technology, CMQ provides a method for assessing global and regional cardiac function. It offers a suite of measurements and parametric displays to analyze trans-myocardial mechanics without Tissue Doppler imaging angle dependency limitations. Using the 17-segment ASE left ventricular model, CMQ provides additional information for many clinical applications such as ventricular wall motion and mechanical synchrony assessments.</p> <p>The excellent 2D image quality provided by PureWave crystal technology allows robust multi-cycle tracking of ventricular transmural layers. You can place and observe tracking points and edit them individually at any time. Multi-directional strain computations can be derived from longitudinal, circumferential, and radial strain measurements.</p> <p>CMQ also offers the unique "free strain" feature. This easy, quick, and accurate method provides the ability to assess user-defined local velocities, displacement, and deformation using an unlimited directional chords display technique.</p> <p>Cardiac Motion Quantification (CMQ) is based on 2D speckle tracking technology, CMQ provides a method for assessing global and regional cardiac function. It offers a suite of measurements and parametric displays to analyze trans-myocardial mechanics without Tissue Doppler imaging angle dependency limitations. Using the 17-segment ASE left ventricular model, CMQ provides additional information for many clinical applications such as ventricular wall motion and mechanical synchrony assessments.</p> <p>The excellent 2D image quality provided by PureWave crystal technology allows robust multi-cycle tracking of ventricular transmural layers. You can place and observe tracking points and edit them individually at any time. Multi-directional strain computations can be derived from longitudinal, circumferential, and radial strain measurements.</p> <p>CMQ also offers the unique "free strain" feature. This easy, quick, and accurate method provides the ability to assess user-defined local velocities, displacement, and deformation using an unlimited directional chords display technique.</p> <p>The CMQ plugin also provides TMAD (Tissue Motion Annular Displacement). TMAD provides you with a validated, ultrafast, reproducible and image-quality independent method to assess global left ventricular systolic and diastolic function.</p>	1		

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Line #	Part #	Description	Qty	Each	Price
		Strain Quantification (SQ) Plug-in Used in the evaluation of regional myocardial function; Measures the myocardial velocity TDI data set and derives the displacement, strain and strain rate along user-defined M-Lines; Includes ability to overlay opening and closing of aortic and mitral valves on SQ curves to evaluate Left Ventricle mechanical events; User-selectable waveform display makes SQ curves easier to read.			
5	**FUS7301	D2cwc Static Transducer	1		
		Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications			
6	**FUS7445	X5-1 xMatrix Transducer	1		
		Latest generation xMATRIX transducer with PureWave Crystal Technology. xMATRIX transducer with 5 to 1 MHz extended operating frequency range for adult echo applications in 2D, Live xPlane and Live 3D modes. Highly-functional, ergonomic design that operates in all common imaging modes, making it practical for everyday use.			
7	**FUS7441	X7-2t xMATRIX TEE Transducer	1		
		High frequency xMATRIX sector array transesophageal transducer with PureWave Crystal technology. Fully functional transducer with 7 to 2 MHz extended operating frequency range that images in 2D, Live xPlane, Live 3D, 3D Zoom, Full Volume and 3D color modes. Includes M-Mode, PW doppler, CW doppler, harmonics, true electrocautery suppression, and adaptive autocool. Includes ECG interface cable, disinfection basin, and 1 disposable tip protector. Includes 1 year warranty.			
8	**FUS7000	English Manual	1		
		Operation Manual			
9	**FUS7000	English Manual	1		
		Operation Manual			
10	**NNAP126	QLAB 9.0 NA GI/ Shs Bun	1		
		Includes QLAB Core Module, Intima Media Thickness (IMT) Quantification Plug-in, Region of Interest (ROI) Quantification Plug-in, Cardiac Parametric (PQ) Quantification Plug-in, Strain (SQ) Quantification Plug-in, Cardiac 2D Quantification (2DQ) Plug-in, Cardiac 3D Quantification (3DQ), Cardiac 3DQ Advanced Plug-in, Mitral Valve Quantification (MVQ) Plug-in, GI 3D Quantification (GI 3DQ) Plug-in, MicroVascular Imaging (MVI) plug-in, Elastography Quantification (EQ) plug-in and CMQ (Cardiac Motion /Mechanics Quantification Plug-in).			
		QLAB Core Module QLAB is designed for ultrasound clinicians who require sophisticated analysis of image data acquired on Philips ultrasound systems. A large number of Plug-ins is available, offering a variety of powerful 2D/3D advanced quantitative capabilities. All Plug-ins require the QLAB Core Module.			
		QLAB core module provides 2D viewer by default. The 3D Viewer comes with the 3D plug-ins when ordered. QLAB Core Module functions include review, deletion and quantification of Philips iE33, iU22, CX50, HD15, HD11, HD7, SONOS, HDI and EnVisor C.0 image files; PC Graphic image/movie files creation in BMP, TIFF, JPEG and AVI; Ability to remove patient information from QLAB all screens and prior exporting new PC files; Export of quantification data into Excel-compatible spreadsheet formats; Built-in on-line help in multiple languages.			

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Line #	Part #	Description	Qty	Each	Price
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Ultrasound data can be sent to QLAB via DICOM network connection, MOD/CD/DVD media or USB Flash Drive/Self-powered MiniDisk devices.

Intima Media Thickness (IMT) Quantification Plug-In

Provides automated measurements of intima media thickness in carotids and other superficial vessels;

Eliminates the laborious process of manually positioning cursors, minimizing the time needed to complete an IMT study.

Compatible with Philips iE33, iU22, HD15, HD11, HD7, EnVisor C.0, SONOS and HDI systems.

Region of Interest (ROI) Quantification Plug-in

On compatible files calculates Color Mean and Standard Deviation, Echo mean and Standard Deviation, VI, FI, VFI. Enables user to apply motion compensation algorithm. Provides basic trending capabilities (off cart only).

Compatible with Philips iE33, iU22, CX50, HD15, HD11, HD7, EnVisor C.0, SONOS and HDI systems.

Cardiac Parametric Quantification (PQ) Plug-In

Allows advanced review and analysis of contrast intensities within the heart;

Provides color-coded representation of contrast intensity and replenishment rate based on either Log or linear scaling.

Compatible with iE33, SONOS and HDI systems.

Strain Quantification (SQ) Plug-in

Used in the evaluation of regional myocardial function; assessment of synchronicity and guidance during bi-ventricular pacing procedure;

Measures the myocardial velocity TDI data set and derives the displacement, strain and strain rate along user-defined M-Lines.

Compatible with iE33, iU22, CX50, HD15, HD11, SONOS and HDI systems.

2D Quantification (2DQ) Plug-in

Display of 2D ultrasound images;

Semi-automated border detection for cardiac chambers and vessel cavities;

Computes Areas, Volumes and advanced parameters for LV systolic and diastolic function including, LV Ejection Fraction (EF) and Fractional Area Change (FAC);

The Peak Ejection Rate (PER), Peak Rapid Filling Rate (PRFR) and Atrial Filling Fraction (AFF) are also reported;

Color Kinesis (CK) tool for provides color-coded visualization of global and regional wall motion;

TMAD allows visualization and quantification of Atrio-Ventricular Annulus planes Motion in order to assess cardiac global function in fast and reproducible way to facilitate trending report.

Compatible with Philips iE33, iU22, CX50, HD15 and HD11 systems.

Cardiac 3D Quantification (3DQ) Plug-in

Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets from the iE33, iU22 and SONOS 7500 Live 3D systems;

Offers viewing, cropping, slicing and quantification including distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations;

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Line #	Part #	Description	Qty	Each	Price
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3DQ also provides Multiplanar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 3D iSlice generation.

Compatible with Philips iE33, iU22 and SONOS7500 systems.

Advanced 3D Quantification (3DQA) Plug-in

Extends the diagnostic power of Live 3D Echo by providing the first semi-automated, on-cart and off-cart analysis of true LV volumes—using all the voxels to generate a full 3D endocardial border; Cardiac 3D Quantification Advanced (3DQ Advanced) revolutionizes echo quantification and extends the diagnostic power of Live 3D echo by providing the first semi-automated, on-cart and off-cart analysis of true LV volumes—using all the voxels to generate a full 3D endocardial border. This is a true 3D border with higher accuracy and less dependency on LV shape assumptions than conventional methods, which rely on sparse view analysis.

3DQ Advanced waveform display provides accurate data for assessing global function based on LV volume, ejection fraction and stroke volume. Additionally, 3DQ Advanced allows simultaneous display of 17 regional waveforms, enabling temporal comparisons between segments.

MultiPlanar Reconstruction (MPR) views provides unlimited anatomical planes from 3D volume; New iSlice generation run in the 3D viewer and is compatible with all Philips Live 3D dataset including color data, provides highly flexible short and long axis slicing tool and display up to 4x4 equally spaced MPR views to facilitate LV function visualization assessment;

Measurements of LV endocardial Volumes, Stroke Volume (SV) and true 3D ejection fraction (EF) using a semi-automated border detection in 3D space;

Computes global and regional LV volumes based on ACC 17 segments model;

Displays global LV volume waveform and provides selective display of 17 regional volume waveforms;

Offers timing assessment for each 17 minimal regional volumes and determine a synchronicity index for all volume segments or a user-selectable group of volume segments;

Provides comprehensive report with summary of synchronicity indexes and displays regional Timing and Radial Excursion Parametric Images in Bull's eye representation.

iCrop capabilities with the 3D volumes.

Mitral Valve Quantification (MVQ) Plug-in

The Mitral Valve Quantification plug-in (MVQ) adds precise 2D and 3D quantification of the mitral valve anatomy and associated structures based on data acquired with Philips Live 3D Echo and the X7-2t transesophageal transducer;

Based on the precise Live 3D TEE information, the MVQ plug-in provides a clinical decision support tool to improve diagnostic confidence, surgical planning, communication between clinicians and for the patient, and follow-up care.

Compatible with the Philips iE33 system and Live3D TEE Transducer.

GI 3DQ Plug-In

Review and display 3D data sets from the Philips iU22, iE33 and HD11 systems;

Includes MPR (Multiplanar Reconstruction) capability;

Can display as 1-up (full volume), 4-up (volume/MPR), or Direct iSlice display);

Also provides MPR rotation, basic crosshair control, rotation and movement; crosshair and MPR border graphics controls, pan and zoom controls, and export of BMP, JPEG, TIFF and AVI files;

Rotation speed control, Elevation resize for freehand volumes, Linear Measurements, Ellipse Measurements, Stacked Contour Measurements, Region of Interest (ROI) Analysis;

Works with Matrix and Mechanical Volume Transducers.

MicroVascular Imaging (MVI) Plug-in

MVI uses specially designed post-processing software to map contrast agent progression. This

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Line #	Part #	Description	Qty	Each	Price
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software plug-in measures changes in the image from frame to frame, suppressing background tissue signals and capturing additional contrast data. The additional data obtained using MVI dramatically enhances vessel conspicuity.

Elastography Quantification (EQ) Plug-in

Perform parametric imaging and strain ratio analysis. Parametric imaging calculates relative strain with respect to a user defined reference region. Strain ratio allows calculation of relative strain of two regions of interest over time.

Cardiac Motion/Mechanics Quantification Plug-in

Based on 2D speckle tracking technology, CMQ provides a method for assessing global and regional cardiac function. It offers a suite of measurements and parametric displays to analyze trans-myocardial mechanics without Tissue Doppler imaging angle dependency limitations. Using the 17-segment ASE left ventricular model, CMQ provides additional information for many clinical applications such as ventricular wall motion and mechanical synchrony assessments. Compatible with the Philips iE33, iU22, CX50, HD15 systems files.

PC requirements for all QLAB plug-ins:

- Processor: Intel Core 2/Xeon, AMD Athlon 64/Opteron or greater
- Operating System:
 - Windows XP Pro Service Pack 3, 32-bit
 - Windows 2003 Server, 32-bit
 - Windows 2008 Server R2, 32-bit
 - Windows Vista, 32-bit
 - Windows 7, 32-bit or 64-bit
- Memory: 2 GB RAM
- Graphics Card: 32 64 MB or greater with H/W accelerated OpenGL support and Pixel Shader 3.0 (Intel video cards may work but are not supported)
- Hard Drive: 80 GB HD with 7200 RPM
- Monitor: Minimum 1024 x 768 resolution (SVGA) and capable of 24-bit or 32-bit color display
- Media:
 - CD-ROM/DVD Drive for transferring files from iE33, iU22, HD11 XE, HD11, HD15, HD9, CX50 and EnVisor ultrasound systems
 - 640 MB 3.5-in magneto-optical drive for transferring files from HDI ultrasound systems
 - 1.2 to 2.3 GB 5.25-in magneto-optical drive for transferring files from SONOS ultrasound systems
 - USB port for transferring files from iE33, iU22, HD9, HD15, and CX50 ultrasound systems
- Mouse with a scroll wheel and a standard Microsoft keyboard

11	**FNA8173	2 Day ENT ACT w/Travel	1
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2 Day Entitlement ACT with Travel- The 2 Day Advanced Customer Training (ACT) course with travel consists of advanced intensive training on the selected ultrasound system and includes the corresponding travel package.

Entitlement Advanced Customer Training (ACT) Tuitions expire within 180 days from system or upgrade installment date. Due to travel and scheduling requirements, a twenty-one (21) day notification of cancellation is required or training / education entitlements will be forfeited. Curriculum is subject to change without notice.

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Line #	Part #	Description	Qty	Each	Price
		Travel & Accommodations for one (1) registered attendee. Includes one (1) participant's airfare from a North American customer location to a Philips North America Ultrasound Clinical Education training location with modest lodging, ground transportation and meal expenses for 2 days. Breakfast/dinner are provided by the hotel and lunch/breaks are catered by Philips Healthcare. All other expenses will be the responsibility of the attendee (ie. Baggage fees, meals while traveling, transportation to and from customer's home airport). Details are provided during the scheduling process.			
12	**FNA8171	2 Day ENT TEE U w/Travel	1		
		2 Day Entitlement TEE University with Travel - A variety of Live 3D TEE University course offerings are available to meet your educational needs. Live 3D TEE provides cardiologists, anesthesiologists, and cardiac surgeons novel and exiting realistic views to aid in patient care. The 2 Day ENT TEE University Tuition includes both the tuition and the corresponding travel package.			
		Entitlement University Tuitions expire within 365 days from system or upgrade installment date. Due to travel and scheduling requirements, a twenty-one (21) day notification of cancellation is required or training / education entitlements will be forfeited. Curriculum is subject to change without notice.			
		Travel & Accommodations for one (1) registered attendee. Includes one (1) participant's airfare from a North American customer location to a Philips North America Ultrasound Clinical Education training location with modest lodging, ground transportation and meal expenses for up to 2 days. Breakfast/dinner are provided by the hotel and lunch/breaks are catered by Philips Healthcare. All other expenses will be the responsibility of the attendee (ie. Baggage fees, meals while traveling, transportation to and from customer's home airport). Details are provided during the scheduling process.			
13	**FNA8170	1 Day PAS Onsite	3		
		1 Day PAS Onsite - Ultrasound system or upgrade onsite training provided by a PAS (Product Applications Specialist) for specific system applications or upgrades; not per modality. <i>Education is provided Monday - Friday during normal business hours.</i> Note: Philips Healthcare personnel are not responsible for actual patient contact or operation of equipment during education sessions except to demonstrate proper equipment operation. The training sessions should be attended by the appropriate healthcare professional as identified by the department director. <i>Repeat training for staff non-attendance will not be accepted.</i> Site must be patient-ready to meet training expectations. All onsite training day expires within 90 days from system or upgrade installation date. Exceptions are for 3D Stress onsite training (which expires 9 months from system or upgrade installation date) and Fusion & Needle Navigation onsite training (which expires 180 days from system or upgrade installation date).			
14	**FNA8175	3 Day ENT 3DU w/Travel	1		
		3 Day Entitlement 3D University with Travel - A variety of C/V, Vascular, GI and WHC University course offerings are available to meet your clinical educational needs. These courses range from one to three days in length and offer a wide range of content matter. Please refer to the course catalog for a complete listing of all university courses that you can choose from. The 3 Day ENT 3D University Tuition includes both the tuition and the corresponding travel package.			
		Entitlement University Tuitions expire within 365 days from system or upgrade installment date. Due to travel and scheduling requirements, a twenty-one (21) day notification of cancellation is required or training / education entitlements will be forfeited. Curriculum is subject to change without notice.			

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Line #	Part #	Description	Qty	Each	Price
		Travel & Accommodations for one (1) registered attendee. Includes one (1) participant's airfare from a North American customer location to a Philips North America Ultrasound Clinical Education training location with modest lodging, ground transportation and meal expenses for up to 3 days. Breakfast/dinner are provided by the hotel and lunch/breaks are catered by Philips Healthcare. All other expenses will be the responsibility of the attendee (ie. Baggage fees, meals while traveling, transportation to and from customer's home airport). Details are provided during the scheduling process.			
15	**FNA8204	1st SVC Manual for Gov	1		
16	SP019	Trade in Allowance	1		
		Customer represents and warrants that (i) Customer has, and shall have when title passes, good and marketable title to the equipment being traded in and (ii) has the authority to effect such trade in.			
		Product: 795052 iE33 Ultrasound System			
		Serial Number: 02R7X6			
		Manufacturer: PHILIPS HEALTHCARE			

OVERTON BROOKS VAMC
510 E. STONER AVE.
SHREVEPORT, LA
71101-4295
PO#: 667-B29007

Scope of Supply

Qty Description

1 Elekta Infinity System

Elekta Infinity is the definitive Volumetric Modulated Arc Therapy (VMAT) treatment solution.

Volumetric Modulated Arc Therapy (VMAT) combines software and hardware innovations that allow delivery of Volumetric Intensity Modulated Radiation Therapy which enables simultaneous and dynamic movement of MLC while rotating the gantry in combination with varying the dose rate, gantry speed and or collimator angle to deliver a highly conformal dose.

This offers opportunity for:

- Improved Treatment Workflow
- Precise Dose Control for critical structure avoidance and optimal target coverage
- Increased patient throughput

This advanced delivery capability is further enhanced by the inherent Elekta X-ray Volume Imaging System (XVI) included with this system.

Elekta Infinity consists of a dual modality digital accelerator, providing a comprehensive range of both x-ray and electron energies to satisfy the requirements of external beam radiotherapy. The Elekta Infinity Digital Accelerator offers an unrivalled choice of up to three different x-ray energies between 4 and 15MV and up to 7 electron energies between 4 and 18MeV. With a low isocentric height (124cm), the Elekta Infinity Digital Accelerator is designed for optimum clinical usability.

Elekta Infinity is remote system diagnostic ready and will function with the optional Elekta IntelliMax™ service monitoring and support system. Elekta IntelliMax™ service monitoring and support system is enabled through software and is available during the original system warranty period or through purchase of an Elekta Advanced Service Agreement.

The MLCi2 Head offers lower leakage performance over the MLCi, without compromise on the existing clinical merits of that design.

Specifically designed to reduce inter-leaf and intra-leaf leakage, it takes a significant step forward in minimizing dose to healthy tissue outside of the collimated area.

With the ever evolving clinical techniques, it is an ideal partner for new functionality such as volumetric arc therapy (VMAT), while still providing high standards of collimation for more conventional applications. High conformance dose delivery is ensured through the physical characteristics of the head design.

Key benefits include:

- Maximum patient clearance ensuring optimal beam angle flexibility
- Full integration enabling fast and efficient IMRT delivery
- Streamlined workflow through elimination of need for shadow tray blocks
- Full compatibility with major treatment planning systems through IMPAC MOSAIQ
- Constant real-time, beams eye verification of leaf positions ensures beam shaping accuracy
- Unwanted dose to the patient minimized by auto tracking of the back up diaphragms during static and dynamic beam delivery
- OmniWedge capability
- Motorized Autowedge for angles up to 60°
- Lower Leakage performance
- Mechanically Interdigitated ready

The Precise Table provides smooth, quiet operation for positioning the patient during clinical procedures. It comprises a vertical lift mechanism, couch base and the control system.

Elekta Infinity includes the iViewGT™ MegaVoltage Portal Imaging System and the XVI (X-Ray Volume Imaging System) for KV based 3-D volumetric imaging.

1 Elekta Infinity System (Covers and double pointer)

The system is complemented with a unique pearlescent white cover set.

The double pointer kit is a mandatory part of this cover set.

- 1 **6 MV Low Energy Photon**
- 1 **15 MV High Energy Photon**
- 1 **6 MeV Electron Energy**
- 1 **8 MeV Electron Energy**
- 1 **10 MeV Electron Energy**
- 1 **12 MeV Electron Energy**
- 1 **15 MeV Electron Energy**
- 1 **Standard Set of Aperture Plate Electron Beam Applicators**
Field sizes:
 - 6 x 6 cm, SSD 95 cm
 - 10 x 10 cm, SSD 95 cm
 - 14 x 14 cm, SSD 95 cm
 - 20 x 20 cm, SSD 95 cmFitted with spring loaded touch guard, coded end frames and electrical connection to linear accelerator latch mounting system enables easy and rapid attachment.
- 1 **Software license for Camera Gain Control**
Enables the image gain of the camera to be adjusted by an item part value (i.e. camera iris item part value).
- 1 **AutoCAL for MLC - All-time license**
MLCi calibration software, tools and all time license
AutoCAL for Multileaf Collimator (MLCi) is designed to provide improved calibration and verification of many fundamental radiation and mechanical parameters, making it easier and faster to set up and maintain the MLCi for routine IMRT clinical use.

The tool supports:
 - A predefined sequence of image acquisition from iViewGT™
 - Image analysis, with pass/fail tests with user defined criteria
 - A range of tests useful for set-up, acceptance and quality assurance
 - Print out for record keeping and archiving of images and results
- 1 **Desktop Pro™ Mk3i control system**
Control System hardware for the Linear Accelerator, release 7.01

Desktop Pro™ - the Linear Accelerator control system which manages all aspects of the treatment process providing processing and logging for all pertinent Linac patient and machine data. The Desktop Pro™ provides a graphical user interface based on the Windows XP platform. Functional integration into a single workstation ensures security and integrity of the treatment delivery. Desktop Pro™ streamlines operational efficiency and improves patient throughput. The Desktop Pro™ modular software design allows a wide range of options to meet your clinical requirement and provides compatibility with IMPAC Oncology Management System and third party R and V Systems. (Please note USB ports have replaced the tape drive on this model).
- 1 **Software License Desktop Release 7.01**
Desktop Pro™ R7.01 is the control system software for Elekta Digital Accelerators. As well as providing clinical and service user improvements, this software supports the PreciseBEAM™ Dynamic and VMAT license options.
- 1 **PreciseBEAM™ VMAT**
PreciseBEAM™ Volumetric Intensity Modulated Arc Therapy providing continuous Arc Modulation delivery.

This license enables simultaneous dynamic movement of one or more of the following parameters:

- MLC
- Diaphragms/Jaws
- Gantry speed
- Dose rate
- Collimator angle

During delivery, the speed of the gantry and dose rate can be automatically adjusted to change the intensity of the radiation beam and vary the MU delivered per degree of movement.

1 Software License Linac Record to file

Optional software to Record Linac Data to file.

The Software license Linac record to file offers the user the option to configure the Linac (in Service Mode) to send the data to network file rather than to a printer.

1 Software License Linac Record

The Daily Record Function allows the Treatment System radiation beam information to be recorded on a continuous basis. Every time the beam is turned on it records the incidence: patient treatments or port films. This can be used as a back up for record and verify systems or for billing purposes.

1 Software License for MLC Monitoring

Provides the facility for motor current feedback to Integrity™, via the MLC electronics assembly. Leaf power supply monitoring and a temperature sensor is also provided.

1 XVI Infinity

X-Ray Volume Imaging - Integrated kV Imaging System for IGRT on the Elekta Infinity.

The imaging capability of Elekta Infinity System enables the clinician to take full advantage of IMRT dose delivery without the need for implanted target surrogate markers, due to the high visualization capability of all soft tissue structures, target volume and critical structure position. Fast, automated registration of the VolumeView™ image with the reference CT planning data allows non-invasive image guided treatments.

1 PlanarView™ - 2D static single imaging mode

The PlanarView™ license enables the acquisition of static 2D kV images on the XVI system. Images are displayed and can be compared to a reference image.

PlanarView™ thus provides similar functionality to existing orthogonal MV portal images for initial patient set-up. The X-rays of PlanarView™ are produced using kV energy range which results in high quality images at very low doses.

The key visualization advantages offered by PlanarView™ imaging at the time of treatment include:

- Quick, low-dose, snapshot images showing dense features
- Lung tumors (high contrast to air)
- Bony landmarks (that don't overlie other bony features)
- Implanted markers in soft tissue targets
- Allows for a derived 3D localization through stereoscopic (orthogonal) imaging

1 Sequence mode imaging (MotionView™)

MotionView™ imaging module helps locate targets that move on a high frequency basis. This becomes particularly critical with the use of small treatment fields or in PreciseBEAM® IMRT application. Like fluoroscopy, MotionView™ allows evaluation of patient motion while the patient is in the treatment position for optimum treatment delivery.

Developed to address intrafractional organ motion, MotionView™ allows the clinician to visualize patient organ motion for evaluation of field coverage for optimum treatment delivery. Even when a device such as the Elekta Active Breathing Coordinator™ is being employed, MotionView™ is useful for monitoring other motion in the thorax or upper abdomen.

The key visualization advantages offered by MotionView™ imaging at the time of treatment include:

- Real-time movement of dense features
- Lung tumors (high contrast to air)
- Bony landmarks that don't overlie other bony features
- Implanted markers in soft tissue targets

1 Volume mode imaging (VolumeView™)

3D Volumetric Imaging.

Using Elekta 3D volume mode (VolumeView™), clinicians can visualize soft tissue detail in any area of the body. Elekta VolumeView™ provides volumetric 3D data sets with submillimeter isotropic resolution acquired with the patient in the treatment position.

The system can acquire a complete 3D volume in a single revolution with reconstruction taking place simultaneously with rapid registration against the CT treatment plan image. This allows for optimization of the treatment plan and correction for target shifts due to organ motion and deformation.

The imaging dosage necessary to obtain a VolumeView™ image can be varied depending on the level of contrast required. For prostate imaging, a larger degree of contrast is required to differentiate similar soft tissues in addition to complications caused by low transmission and high scatter, while a VolumeView™ image in the head and neck region would require a lower dose.

Key visualization advantages offered by VolumeView™ imaging at the time of treatment include:

- Soft tissue size, shape and position
- Critical organs and tumors
- Bony anatomy and alignment in 3D
- Eliminates the need for surrogate markers
- Ability to minimize the imaging dose
- Patient outline

1 Elekta XVI software

The XVI software offers a fully integrated solution for advanced Image Guided Radiation Therapy techniques on the Elekta Synergy® and Elekta Infinity range of machines.

2D or optional 3D kV images can be acquired with the patient in the treatment position, at the point of treatment on the Elekta Digital Accelerator.

1 Control System hardware for XVI, Release 4.5

The XVI control system is a high specification dual processor PC which supports all aspects of the IGRT process including 2D, 3D and 4D kV image acquisition, VolumeView™ reconstruction, and analysis using a suite of advanced registration functionality.

1 Advanced XVI R4.5 Software

The advanced XVI license enables efficient streamlined IGRT workflows, including one touch VolumeView™, and fast automated image registration.

Advanced registration functionality such as 3D Automated Seed Matching, Critical Structure Avoidance and Symmetry (4D IGRT) are optional with this software.

1 Segmental (Breath Hold) VolumeView™

Provides the user with the ability to interrupt and restart VolumeView™ acquisitions using the Function Key Pad.

Supports 3D acquisition during breath-holding procedures by allowing the acquisition of partial volumes for each separate breath hold, with subsequent reconstruction a single 3D image.

1 XVI TFT Monitor

Specification for high resolution 17" Flat Panel Monitor.

The TFT monitor will fit neatly into the linac control area.

It is used to display the high resolution images acquired on XVI, from PlanarView™, MotionView™, and VolumeView™.

1 40kW kV generator

The Elekta Synergy® System XVI has an Integrated 40kW kV generator which provides multiple setting control via the XVI software. Acquisition parameters are configured within the Preset protocol function in the XVI software which is user configurable. The generator and X-ray tube have been optimized for the 3D VolumeView™ imaging, as well as radiographic type exposures for PlanarView™ and MotionView™.

1 Extra Collimators

Provision of additional XVI collimators for imaging.

Includes:

- VolumeView cassettes: L10, M2, L2

1 DICOM CT export license

This license enables the customer to export the VolumeView™ images acquired with the XVI as DICOM CT Images to an external

system such as a third party treatment planning system.

- 1 **Automated DICOM CT export license**
This DICOM export license allows the user to send post reconstruction XVI images to a configurable destination automatically upon acceptance of the XVI images.
- 1 **DICOM RT Image Export**
Manual DICOM Export of PlanarView™ Images.
Supports the manual export of PlanarView™ images into the MOSAIQ software.
Within MOSAIQ 'Setup Intelligence' functionality, images can be automatically matched using curve, point manual or automatic grey value registration.
- 1 **Auto DICOM RT Image Export**
Automatic DICOM Export of PlanarView™ Images
Supports the automatic export of PlanarView™ images into the MOSAIQ software, using a DICOM RT Image Standard.
Within MOSAIQ 'Setup Intelligence' functionality, images can be automatically matched using curve, point manual or automatic grey value registration.
- 1 **Elekta XVI Basic Calibration Kit**
Geometric calibration and QA phantom
Specially designed geometric calibration phantom for kV to MV isocenter alignment and other calibration activities for the Elekta XVI system. Utilizing the phantom in conjunction with the specific associated software tools delivered with the XVI system enables fast calibration of the kV to MV X-ray isocenter, and flexmap calibration for VolumeView™ imaging.
- 1 **2D Image Quality Phantom**
Image quality phantom use for 2D kV image quality to determine the low contrast and spatial resolution of XVI 2D images (PlanarView™ images).
This test tool is used for the 2D image quality of the Customer Acceptance Test for XVI and can be used to monitor image quality over a period of time.
- 1 **VolumeView™ Contrast phantom**
QA phantom to enable measurement of high resolution and contrast resolution and other image quality parameters of the VolumeView™ images acquired on the XVI workstation.
- 1 **Adaptor kit for QA Phantom to IBEAM®/IBEAM® evo Couchtop**
Single ball phantom table top adaptor kit.

This attachment supports the single ball bearing phantom which is used to calibrate the Synergy® imaging software to the mechanical isocenter.
- 1 **Kit, XVI Daily QA Phantom**
Daily QA Phantom for kV and MV projection imaging and kV VolumeView™ checks
Laser and lightfield coincide additionally
Spreadsheet for recording and analyzing trend results
- 1 **XVI Water Calibration Kit**
Water phantom calibration kit for XVI calibration.
It provides a reduction in CBCT image ring artifacts in addition to image quality improvements.
- 1 **Synergy® cable reeling**
- 1 **Customer Interface Terminal Board**
- 1 **iViewGT™ Infinity Hardware**
Retractable arm for iViewGT™
iViewGT™ provides:
- Rigid and fully retractable slimline detector for maximum accessibility and clearance.

- Large, square active area and wide lateral and longitudinal movement accommodating all patient anatomies.
- Automatic and manual arm movement for efficiency of use.
- Fully interlocked safety features for operator confidence and patient comfort.

1 **iViewGT™**

Amorphous Silicon panel for iViewGT™

The iViewGT™ Amorphous Silicon panel provides:

- Fast verification of dose conformance for acceptance of treatment quality.
- Excellent image quality and clear anatomical definition.
- Fast acquisition capture for real-time modification of set up prior to treatment delivery.

1 **iViewGT™ PC running release 3.4 SP2**

High performance PC hardware for use on iViewGT™ imaging systems.

Microsoft Windows XP Professional SP2 operating system and iViewGT™ release 3.4 SP2 software pre-installed.

1 **R3.4 S/W License for iViewGT™ Portal Imaging System**

iViewGT™ R3.4 software provides:

- Full image acquisition capability for iViewGT™ customers
- Enhanced image display options offering superior structure visualization. (Enabled with the CLAHE (Contrast Limited Adaptive Histogram Equalization) algorithm)
- Extensive networking capabilities through DICOM
- Automated DICOM export of acquired images
- Sophisticated tool set for efficient image acquisition
- Confident tracking of sophisticated treatments such as IMRT, with fast continuous synchronized imaging
- Enhanced printing for display of images
- Export image log for trend analysis facility

1 **iView™ IMRT Verification Software License**

This software expands existing iView™ functions to verify multiple segment beams for IMRT. The iView™ image acquisition is triggered automatically and the image taken depends on whether the user selects single, multiple or movie image.

1 **External Portal Imaging Interface**

A mechanism where user and system events in iView™ are sent to an external customized program. Could be used as an interface to third party systems or for analysis of image data.

1 **Template Matching Software License**

The template matching option enables the user to compare the portal image with a nominated reference image for any set-up error.

The set-up error is measured by matching visible anatomy and the field edge on the referenced image with the portal image. The user can move the templates to provide an image displacement.

1 **Software License Image Approval**

This allows the user, assigned with the "review" permission, to approve or disapprove any image within iViewGT™ or iViewC™.

1 **Patient Auto Select Software License**

This enables the prescription selected on the Linac to automatically select or create that patient record on iViewGT™ / iViewC™ using the iCom-Vx protocol. In addition, images will automatically be acquired and stored in the iViewGT™ / iViewC™ database without further operator intervention.

1 **DICOM 3.0 software Interface for Image transfer**

The international standard interface protocol for network transfer of medical images.

1 **Remote Detector Retraction Upgrade Kit – 30m cable**

This kit allows Remote Retraction of the iViewGT™ detector from the Function Key Pad.

1 **Las Vegas Calibration Phantom**

The Las Vegas phantom is a device that is used to check image quality of a portal imaging device at different Megavoltage energies both at acceptance and as part of the corrective maintenance procedure.

1 Flat panel monitor for iView

1 iViewGT™ Warranty

1 iView Installation

1 Remote Automatic Table Movement License

Remote Automatic Table Movement License with either XVI or MOSAIQ.

This license enables the user to make the translation correction movements remotely and automatically at the Precise Table. This movement can either take place following a registration as part of an on-line VolumeView™ imaging workflow or the Precise Table can be moved remotely and automatically to coordinates entered into MOSAIQ.

It should be noted that if customers have XVI, they will only be able to have this functionality when using on-line image workflows.

This feature is only available with MOSAIQ when the Linac does NOT have XVI imaging capability.

1 Independent X/Y movement of table top

To save time, in reaching the desired position, this kit allows the X/Y brakes to be released independently.

1 Table ASU License

In addition to normal linac ASU, the user is able to separately request the auto setup of the table isocenter from inside and outside the room.

1 General Function Key Pad

The Function Key Pad provides the following features:

- MV Start, Interrupt and Terminate
 - LED's to indicate radiation on / off status
 - Linac Assisted Setup (ASU) – facilitating automatic gantry and diaphragm rotations
 - Table ASU – facilitating automatic table translations and isocentric setup
 - Imaging ASU – facilitating automatic remote retraction of the iViewGTTM detector
- This Function Key Pad has been ergonomically designed to ensure comfort during prolonged ASU periods.

1 Precise Table or Pedestal Pit Kit

This kit provides the necessary fixings, floor boards and template to install a Precise Table into a custom built Pit or a modified Pedestal Pit.

1 IntelliMax™ Intelligent Agent

This License provides only the IntelliMax™ Intelligent Agent license. Any provision of services relating to the use of data collected by the Agent (via the IntelliMax™ Enterprise) should be negotiated as part of the Service Contract between the Customer and the BU/distributor.

IntelliMax™ Intelligent Agent requires a dedicated PC. Provision of this PC must be negotiated between the Customer and the Elekta BU/Distributor. A specification of the PC can be obtained from your Elekta representative.

IntelliMax™ Intelligent Agent also requires a direct internet connection to the Agent PC opening secure port 443 (https).

1 Network Security Solution

The Elekta Network Security Solution (NSS) is a multi-purpose device designed to protect Elekta's Treatment Delivery Suite (TDS) from illicit intrusion attempts and malware attack. A single NSS provides Unified Threat Management (UTM) functionality (firewall and malware protection) and temporary secure data storage for a single digital linear accelerator and its associated IT components.

1 Extended Service License for Desktop 7

Software License providing enhanced features.
This license allows the user extra service tools/functionality.

1 Set of manuals

1 VMAT Treatment Planning System Manual

- 1 **Turbo Starter Kit for Linear Accelerators**
Ancillary equipment required for the installation and maintenance of any Precise Digital Accelerator.
Comprising:
 - Rotary vacuum pump
 - Turbo molecular pump attachment for rapid pump down times and higher roughing vacuum
- 1 **Laser back pointer**
Comprising:
 - Fiber optic laser back pointer (Class 2 laser)
 - Mechanical mounting kit
 - Laser warning label
- 1 **Order two sets of pre defined terminated cable kits**
Pre installation treatment room and Inter bay terminated cable kits
- 1 **20" Flat panel control room monitor**
- 1 **Standard Rigging & Handling**
Basic rigging of Linac to first floor or ground floor location. Elekta will provide the necessary crew to offload, uncrate, rigging and machinery moving required to set system as per plan, and remove debris. Basic rigging excludes use of a crane or rigging down an elevator shaft.

Standard Rigging includes:

- Make one pre-installation site visit and delivery project management.
- Drill holes for equipment fasteners
- Supply a 12,000 lb capacity forklift during the off loading procedure.
- Stage and uncrate the linac machine, move all components into the facility, and set as directed.
- Remove and dispose of all packaging that will not be reused.
- Transport the base, gantry and beam arm into the facility/bunker on transport trolleys supplied by Elekta.
- Set the base frame in place (Elekta will level).
- Set the gantry drum onto the base frame.
- Set beam arm into the gantry.
- Install counterweight holder and stack the counterweights.
- Supply a manual gantry lifting system to perform aforementioned setting activities and all necessary tools.
- Supply a crew, including a rigging supervisor.
- Include the cost of all associated resource and expenses, including related travel time.
- Complete all rigging activities in a single day.

Standard Rigging excludes:

- Crane service.
- Elevator, or shaft deliveries.
- No clear access to the building (exterior).
- Interior obstruction en route to treatment room.
- Any shoring needed to protect the structure from the weight of the system.
- Any shoring and/or plating needed to build temporary dock or landing area for the unit.
- Extra long delivery routes, distances in excess of 150' from offload site to the treatment room.
- Overtime, weekend, premium time, unless Weekend Rigging selected.
- Additional travel expenses should the project exceed the time allotted in this scope for reasons beyond Elekta or our contractor's control.

Additional man-hours, manpower, travel expenses, or equipment required due to delays caused by incorrect site preparation,

waiting time, or delays not caused by Elekta or our contractor will be itemized and billed to the customer at then current rates.

- 1 **Applications Training for Standard Therapy on the Desktop**
The 2-day Standard Precise Desktop Course (travel time inclusive) provides training for 4 Radiation Therapists in the clinical use of the Precise Desktop Digital Linear Accelerator. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in Radiation Therapy.
- 1 **XVI Applications Training**
The 4-day XVI training course (travel time inclusive) provides training for Radiation Therapists in the clinical use of the X-ray Volume Imaging portion of the Elekta Digital Accelerators. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in Radiation Therapy, CT, or Diagnostic Imaging. This course is given at the customer site for a maximum of 4 users.
- 1 **Applications training for iViewGT™**
The 3-day iViewGT™ training course (travel time inclusive), provides training for 4 radiation therapists in the clinical use of the iView™ imaging system. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in radiation therapy.

1 **2nd Line Physics and MLC - Technical Training**

Objective

A competent student will be able to:

- Operate the machine in clinical and service mode
- Conduct calibration procedures and QA for the linac and MLC
- Check the operation of the RF system
- Measure and adjust the X-ray and electron beam energy
- Measure and adjust the X-ray and electron field uniformity

Content

- Course introduction
- Quality assurance
- Calibration
- Multileaf collimator (MLC) System
- High tension (HT) and radio frequency (RF)
- Beam energy and transport
- Electrons
- Dosimetry
- System operation

Pricing Includes:

- Tuition for one user

Pricing Does Not Include:

- Airfare
- Hotel
- Travel related expenses

Assessment

- Two theory assessments and practical assignments.

Training centers and duration

- 9-day course at Elekta, Crawley, UK.

Target group

- Hospital physicists
- Elekta and distributors' physics staff

Pre-requisite

Completed the 1st Line training course or gained a 1st Line Exemption Test pass with 4 months on-site experience.

Further information

Contact the local Elekta business unit or representative. Courses are available for twenty-four (24) months after Acceptance or first clinical use, whichever occurs first.

2 Elekta Oncology Engineer (EOE) 1

Objective

Basic understanding of both electrical and mechanical operation of:

- Linear Accelerator
- iViewGT & XVI
- Precise Table
- MLCi & Beam Modulator
- Computer Systems

Linear Accelerator

- Course introduction
- Patient Workflow and Clinical Operation
- Pre-Course Learning Modules
- Machine Geography
- Control Systems
- Interlocks & Supplies
- Isocenter Checking
- Services
- External Systems Overview (including MOSAIC)
- Machine calibration
- Fault Finding

iViewGT and XVI

- Service support of iViewGT and XVI mechanical systems
- Panel position calibration on iViewGT and XVI

Precise Table

- Safety and Geography
- Calibration and ASU setup
- Principles of Operation
- Corrective and Planned Maintenance
- Trouble Shooting

MLC and Beam Modulator

- Control Systems
- MLC Mechanical Systems
- Beam Modulator Mechanical Systems
- Component Exchange and Fault Finding
- MLC Calibration
- Beam Modulator Calibration
- ACAL Image Based Calibration

Computer Systems

- Overview and Principles of Operation of:
- Linac Control System
- iViewGT Control System
- XVI Control System

Pricing Includes:

- Tuition for one user

Pricing Does Not Include:

- Airfare
- Hotel
- Travel related expenses

Assessment

- Three (3) theory assessments

Training center and duration

-15-day course at training center in Europe or USA.

Target group

-Hospital physicists
-Hospital engineers
-Elekta and distributors

Pre-requisite

-None

Further information

Contact the local Elekta business unit or representative. Courses are available for twenty-four (24) months after Acceptance or first clinical use, whichever occurs first.

- 3 **Elekta® - IGRT Clinical Training Course**
To provide clinical understanding of the use of 4D image guided radiation therapy and give practical guidelines in the use of Elekta linac.

Content

- Introduction to IGRT - clinical experience and benefits
- General clinical workflows
- Image acquisition - calibration and basic QA
- Data communications (TP-XVI)
- Image registration
- Set-up deviation handling - decision rule - table correction
- Protocol - correction of error
- Practical workflows (on/off-line)
- Lectures on different clinical indications (pelvis, lung, head & neck and breast).
- Practical hands-on
- QA sessions and planning

Pricing includes:

- Tuition for one user

Pricing Does Not Include:

- Airfare
- Hotel
- Travel related expenses

Training centers and duration 2-3 day course at:

- The Netherlands Cancer Institute (NKI/AVL), Amsterdam, the Netherlands
- Princess Margaret Hospital, Department of Radiation Oncology, Toronto, Canada
- Swedish Cancer Institute, Seattle, Washington, USA
- Or an alternate collaborating training hospital.

Target group

- Radiation Oncologists
- Physicists
- Radiation Therapists/Radiographers

Pre-requisite: None

For further information please contact: info.education@elekta.com

Courses are available for twenty-four (24) months after Acceptance or first clinical use, whichever occurs first.

- 1 **Power Distribution Unit for Elekta® Linear Accelerator - 480 Volt Input**
The PDCU incorporates a transformer, output circuit breakers, filtering for high frequency noise, distortion, and transient pulse suppression, in one cabinet. This reduces site preparation costs and complexity for the customer.
- 1 **A Frame for Installation/Service**
Includes:
 - A Frame
 - Trolley
 - Hoist (pulley)
 - Delivery Note: Not required if iBeam is in place.
- 1 **Close Circuit TV System-Color**
- 1 **Intercom System for Patient and Radiographer Communication**
- 1 **Electron Beam Field Shaping System**
For use with Electron applicators from Elekta and allows the user to easily provide Electron Beam field shaping. The system comprises:
 - A Universal leveling template with an adjustable arm for securing styro-foam inserts- Set of five (5) rubber molds compatible with Elekta Electron applicators
 - 6cm x 6cm
 - 10cm x 10cm
 - 14cm x 14cm
 - 20cm x 20cm
 - 25cm x 25cm
 - Provided as part of the system is one (1) Hot Wire Cutter.
- 1 **Open Air Graticule**
The Open Air Graticule is intended to be used for Radiation Therapy to project a scale of defined increments on port film images which can aid in treatment setup and verification.
The Open Air Graticule does not require the use of a shadow tray holder and can be attached directly to the head of the Precise Treatment System or SL Linac. It consists of two wires delineating the X & Y axis of the treatment field. This model of graticule is ideal for MLC customers and especially those using Elekta's iView & iViewGTM. Because the open air graticule has a minimal transmission factor, with Physic's approval, the customer does not have to re-enter the treatment room after the port film to deliver the treatment. Please see product User manual for specific treatment information.
- 1 **Model Linac IEC 61217:1996 scales**
Used as an accessory to help visualize treatment plans.

Moving gantry, collimator rotation, table longitudinal movement, with table isocentre and column rotation.

Scales: gantry, collimator, MLC leaves, table isocentre
- 1 **Room Lasers, Red, Remote**
Laser patient alignment system, red lines with remote control adjustment.
Set of 4 red room lasers.
Comprising 3 crosshair and 1 line sagittal laser.
Featuring extremely fine lines (< 1mm), high precision adjustment at the isocenter and easy to install, stable mounting bracket.

Inclusive of switchable (110v to 240v) Power Supply and universal main adaptor and remote hand-held controller.
- 1 **Beam Block Tray - Star Pattern**
Beam block tray with holes in a star pattern.
Trays are designed with threaded, removable plugs for the coding of each block.
Specially designed for use with the Elekta shadow tray assembly.

1 Apex™

Apex™ Collimator

Aesthetically designed for Elekta integration only, with a new concept of attachment/detachment, Apex delivers finer leaf resolution over a larger fieldsize with a unique blend of treatment techniques offering both static and dynamic modes of operation.

Apex™ Hoist.

Apex™ Hoist. A mechanical device to facilitate the loading and unloading of the Apex Collimator on the host machines integrated radiation head.

Apex™ Controller

Apex™ Controller. The unit that drives the mlc motors and gathers all encoder signals to check for correct positioning. It also serves as the master interlock controller to terminate irradiation in the event of an anomaly. It is connected to both the computer and the mlc

Apex™ Clinical Training

Apex™ Clinical Training.

Apex™ Service Training

Technical Training to install, service and maintain an Apex™ system

Apex™ Work Station

a user interface console for downloading treatments to the controller; for monitoring positional feedback; setting arbitrary shapes etc.

Qty	Description
1	Full Active Breathing Coordinator™ System The full ABC system includes: Release 2.0 software, ABC Control Unit, Control Laptop with CD writer included, Flat Panel Patient Monitor, CYBEX Transmitter/Receiver, Transducer (turbine and pick-up assembly), Balloon Valve, Patient Control Switch, Mirror Support System, ABC Cart System and CAT 5 LAN cable.
1	Mandatory software license for the standard product
1	Mouth Piece and Filter Kit Kit of 20 Mouthpiece & Filter assemblies to replace those discarded after use. For use with the Active Breathing Coordinator™.
1	Applications training for Active Breathing Coordinator™ The 2-day Active Breathing Coordinator™ course provides training for 4 radiation therapists in the clinical use of the Active Breathing Coordinator™. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in radiation therapy.
1	CAT 5 Network cable 150ft
1	HexaPOD™ evo RT CouchTop with iGUIDE® 2.0 Tracking System This package can be used for a Precise as well as for a Elekta Synergy or an Axesse. This package supplies the user with all the necessary hardware and software for a complete HexaPOD™ evo RT System installation.
1	Network Security Solution The Elekta Network Security Solution (NSS) is a multi-purpose device designed to protect Elekta's Treatment Delivery Suite (TDS) from illicit intrusion attempts and malware attack. A single NSS provides Unified Threat Management (UTM) functionality (firewall and malware protection) and temporary secure data storage for a single digital linear accelerator and its associated IT components.
1	Precise Table Upgrade Kit for HexaPOD™ This provides the connectors and cables for the data and power from the back of the table to the isocenter base.
1	HexaPOD™ evo RT System Training The 2-day HexaPOD™ evo RT CouchTop and iGUIDE® course (travel inclusive) provides training for 4 radiation therapists in the clinical use of the HexaPOD™ evo RT CouchTop and iGUIDE® software. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in radiation therapy.
1	HeadFIX® Cranial and H&N Stereotactic Localizers (120v) The HeadFIX® system provides cranial as well as head and neck fixation specifically designed for high quality immobilization while preserving patient comfort. The HeadFIX® uses non-invasive stereotactic reference frames with multimodal markers for target localization in the cranium and as well as the head and neck.
1	HeadFIX® Training The 1-day HeadFIX® system course provides training for 4 radiation therapists in the clinical use of the HeadFIX® system. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in radiation therapy.
1	BodyFIX® Training The 1-day BodyFIX® system course provides training for 4 radiation therapists in the clinical use of the BodyFIX® system. Successful participants will be equipped with the knowledge and skills to operate the system effectively. The course does not provide training in the principles or techniques used in radiation therapy.

Part Number	Name	Qty
55400003000IQRO	Elekta IGRT Device Connectivity Connectivity for XVI/volumetric image generation system Connectivity for image generation system. Per IGRT equipped machine includes import of MV, kV or volumetric image/ shifts.	1
46100003000IQRO	SYNERGISTIQ Consolidates and synchronizes MOSAIQ and the Elekta Synergy SYNERGISTIQ integrates MOSAIQ and Elekta Synergy into a consolidated and synchronized user Interface that brings together, in a coordinated manner, the various systems that are required for Image Guided Radiotherapy.	1
45016003101IQRO	Connectivity to Elekta VMAT Elekta VMAT-Interface license that activities support - VMAT	1
TPPLSR-SYQ2MON	DUAL MONITOR OPTION FOR SYNERGISTIQ PC	1
TPPLSR-SYQPC	SYNERGISTIQ PC HARDWARE FOR MOSAIQ	1
90200000004TRRO	ON-SITE TRAINING DURING REGULAR WORKING HOURS - 2 DAYS On-site training visit by Elekta trainer focusing on agreed-upon goals, format, and agenda. Training duration is 2 business days and is conducted during regular working hours.	1

Notes:

Elekta will remove existing SLI linear accelerator at no additional cost to customer. In the event a 3rd party used equipment vendor offers any value above the cost of removal of equipment, that amount will be applied as a credit against the total offer price of the proposal package. Elekta will provide a project manager and services related to project management. Offer price includes shielding calculations report provided by Matthew West.

675-B27006

XR-MAMMO, VAMC ORLANDO, FL

1	<p>SELENIA DIMENSIONS TOMO / AWS 8000 - Selenia Dimensions Tomosynthesis with AWS 8000</p> <p>X-ray Gantry Generator: Constant Potential High Frequency Inverter Type kV Range - 20 kV to 49 kV in 1 kV increments mAs Range – 3.0mAs to 400 mAs mA Range – 10 mA to 200 mA, Lg Focal Spot; 10 mA to 50 mA, Sm Focal Spot</p> <p>X-Ray Tube Tungsten, Bi-Angular, High Speed Filtration - 0.050 mm Rhodium (Rh) and 0.050 mm Silver (AG) Focal Spot Size - 0.3 mm (Lg); 0.1 mm (Sm)</p> <p>Digital Image Receptor Amorphous Selenium, TFT Lorad HTC Anti-scatter Grid w/Auto-Retraction for Geometric Mag Views Image receptor size – Single Plate 24 cm x 29 cm Image Matrix Sizes 18 cm x 24 cm (2560 X 3328) 24 cm x 29 cm (3328 x 4096) Pixel Size - 0.070 mm Limiting Spatial Resolution - 7.1 lp/mm, Conventional Mammography; 3.5 lp/mm, Tomosynthesis Ambient Operating Temperature - 10°C to 30°C</p> <p>Acquisition Workstation CPU - Multi-Core Intel Based CPU Memory - 6 GB RAM Hard Drive - 1.0 TB in RAID-1 Configuration Storage Media - DVD +/- R/W Image Display Technology - 3 Megapixel Grayscale Medical Grade LCD Display User Interface Display - 1.2 Megapixel Touchscreen Color LCD Display Operating System - Microsoft Windows XP, Embedded</p> <p>Screening Compression Paddles 24cm x 29cm 18cm x 24cm Small Breast Paddle</p> <p>Diagnostic Compression Paddles 10 cm Contact Paddle 7.5 cm Spot Contact Paddle Frameless Spot Paddle</p> <p>Magnification Compression Paddles 10 cm Magnification Paddle 7.5 cm Spot Magnification Paddle</p> <p>Accessories: Face Shield (2) Magnification Platform Dual Function Footswitches (2)</p>				
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	<p>DICOM Services: Worklist, Print, Storage, Storage Commitment, Query/Retrieve, Modality Performed Procedure Step</p> <p>IHE Profiles: Scheduled Workflow, Patient Information Reconciliation, and Mammography Image</p> <p>User Interface: Keyboard, trackball, touchpad, biometrics scanner, and bar code scanner</p> <p>Manuals - System Instructions, Maintenance, Quality Control Manuals</p> <p>Local Image Store Capacity: Approximately 9,000 screening mammography studies; or 3,000 combined screening mammography and tomosynthesis studies</p> <p>Licenses:</p> <p>Tomosynthesis Modality AWS License (1)</p> <p>If softcopy review of tomosynthesis images is via SecurView, a SecurView Tomosynthesis license for each system must be included in your order and the following SecurView recommendations apply:</p> <p>Software: SecurView v7.3.1 or higher Standalone or Client Computer (applies to DX or RT): Dell Precision T7500 Manager Computer (applies to DX or RT): SecurView Dell PowerEdge T610 Client Display: Barco Nio, Coronis or High Brightness LCD Displays (CRTs not supported) Keypad: Tomo capable keypad</p> <p>Please consult your Hologic Technical Sales Specialist for more details on the above (US only).</p> <p>Training Requirements:</p> <p>A pre-requisite for the Tomosynthesis Modality is ACR or State FFDM accreditation. If your site has not yet been FFDM accredited, you will need to apply to the ACR or State for FFDM certification. Once that is received, you may contact the MSQA for the FFDM certification extension program for tomosynthesis at 301-796-5710.</p> <p>Manuals: User Manual, Service and Maintenance Manual, Quality Control Manual</p> <p>Warranty: Standard One-Year Parts and Labor Warranty; Two-Year Prorated Manufacturer's Warranty on X-Ray Tube</p> <p>NOTE: BEFORE WE CAN ACCEPT YOUR ORDER FOR A SELENIA DIMENSIONS TOMOSYNTHESIS SYSTEM ("SYSTEM") OR TOMOSYNTHESIS OPTION FOR AN EXISTING SELENIA DIMENSIONS SYSTEM, A TOMOSYNTHESIS CUSTOMER SITE ASSESSMENT SURVEY ("SURVEY") MUST BE COMPLETED WITH YOUR HOLOGIC REPRESENTATIVE TO ASSURE YOUR CONFIGURATION NEEDS ARE ACCURATELY ADDRESSED. THE ADDITIONAL INFORMATION OBTAINED FROM THE SURVEY MAY MODIFY THE REQUIRED COMPONENTS OF YOUR SYSTEM AND THEREFORE YOUR TOTAL PRICE MAY BE ADJUSTED IN A FINAL QUOTE.</p>			
1	<p>Initial Applications - Dimensions 2D - Initial Applications per site - Dimensions 2D</p> <p>Three (3) days of Applications Training for up to 5 technologists per site.</p> <p>Applications must be completed within 12 months of equipment shipment.</p> <p>Please note: Cancellations must be made 48 hours prior to the end of the business week before your scheduled applications to avoid cancellation fees.</p> <p>Initial Applications Added Value: \$5,100.00</p>			
1	<p>Initial Applications – Dimensions Tomo - Tech - Initial Applications – Dimensions Tomo Modality - Technologist</p> <p>Two (2) days of Applications Training for up to 5 technologists per site. Applications must be completed within 12 months of equipment shipment. This training cannot be performed until FFDM certification extension is received for tomosynthesis. Please note: Cancellations must be made 48 hours prior to the end of the business week before your scheduled applications to avoid cancellation fees. Initial Applications Added Value: \$3,400</p>			
1	<p>Initial Applications - SecurView(DX) - Initial Applications per site - SecurView(DX)</p> <p>Three (3) days of Applications Training for up to 6 Radiologist per site.</p> <p>Applications must be completed within 12 months of equipment shipment.</p> <p>Please note: Cancellations must be made 48 hours prior to the end of the business week before your scheduled applications to avoid cancellation fees.</p> <p>Initial Applications Added Value: \$5,100.00</p>			
1	<p>Initial Education – Dimensions Tomo - Physicist - Initial Education – Dimensions Tomo Modality - Physicist</p> <p>Included in the price are 8 hours of Hologic tomosynthesis educational training for up to 2 physicists. This consists of 3 hours of Online training; and, 5 hours of QC training with a Hologic Field Engineer. Education must be completed within 12 months of equipment shipment. Visit www.hologic.com/medical-professionals for a list of Hologic educational opportunities. Added Value: \$1,500.00</p>			

1	<p>Initial Education – Dimensions Tomo - Radiologist - Initial Education – Dimensions Tomo Modality - Radiologist (Requires SecurView DX)</p> <p>Included in the price are 8 hours of Hologic tomosynthesis educational training for up to 5 radiologists per site. This consists of 8 hours of live, online image review training. This training requires a SecurView DX workstation (licensed for tomosynthesis) and a co-located computer with internet connection; ONLY two radiologists to a SecurView DX per Web Ex Training. Please refer to SecurView hardware/software minimums. Education must be completed within 12 months of equipment shipment. Excludes travel and expenses. Visit www.hologic.com/medical-professionals for a list of Hologic educational opportunities. Added Value: \$7,500.00</p>			
1	<p>MammoPad Introductory Package - MammoPad Introductory Package</p> <p>MammoPad Introductory Package Contains:</p> <p>Starter supply of twenty-five (25) 29 x 30 cm MammoPad Breast Cushions MammoPad Initial Order Form</p> <p>Educational Information: "Technical Analysis of Radiolucent Breast Cushions" "Marketing Digital Mammography and a Mammography Breast Cushion to Increase Capacity Volume"</p>			
1	<p>Mammography Trade-In Allowance - Trade-In Allowance for Mammography System</p> <p>Trade-in Allowance for Mammography Systems</p>)
1	<p>WS-LIC-1003-NC - SecurView (DX/RT) Tomosynthesis License</p> <p>This license enables the display of tomosynthesis images on a SecurView DX or RT workstation that is in use at a customer site.</p> <p>It is provided at no charge as part of a promotional program for new Dimensions 3D customers or for customers purchasing the Tomosynthesis Option on an existing Dimensions system (2D to 3D).</p> <p>NOTE: the system serial number of the workstation must be supplied. If the workstation is part of a multi-workstation cluster, the serial number of the Manager must also be supplied.</p>			
1	<p>R2SYS-2021-1U - Cenova (1U) with ImageChecker CAD Port 1 and Citra Core Software Licenses</p> <p>Cenova Digital Mammography Processing System hosts R2 software applications. System includes ImageChecker CAD computer-aided detection for digital mammograms received from a variety of FFDM systems. One ImageChecker CAD port license is included. Optional port licenses can be added to a total of four. R2's patented ImageChecker CAD algorithm analyzes the digitally acquired images. Citra Core software, including RightOn, Malc, PeerView Digital, EmphaSize and LesionMetrics, provides additional information about why R2 CAD marked specific regions. R2's digital mammography CAD results are sent to any DICOM PACS or workstations.</p> <p>Includes:</p> <ul style="list-style-type: none"> Hologic's latest R2 Cenova Processing Unit Server <ul style="list-style-type: none"> Windows XP operating system Dynamic resource management and case control Output transmission re-try mechanism Flexible output routing to multiple output destinations Computer Server (1U) Compact footprint License dongle ImageChecker CAD algorithm, the most trusted name in CAD <ul style="list-style-type: none"> Detection of Calcification Clusters and Densities (Mass) Advanced geometric analysis (CC/MLO correlation and R/L asymmetry) Nine operating point combinations for tailored CAD performance R2 ImageChecker Digital CAD Port 1 Software License supports <ul style="list-style-type: none"> Hologic, GE and Siemens FFDM systems Citra* Core Software License <ul style="list-style-type: none"> RightOn CAD marks placed right on the region-of-interest to unambiguously flag the location Malc CAD marks where the algorithm sees signs both of density and calcifications PeerView Digital to show the exact tissue that caused CAD to mark the region EmphaSize to differentiate CAD marks that have more prominent features LesionMetrics to display additional information about the finding Hologic Connect remote system diagnostic software for post-installation service and applications support; conforms with Verisign security Complete rack mounting kit <p>Requires:</p> <ul style="list-style-type: none"> An equal number of Cenova CAD and Quantra Port licenses (if both are present) Specify manufacturer and model of FFDM system at time of order <p>*Restrictions:</p> <ul style="list-style-type: none"> Advanced R2 CAD features such as the Malc Mark, PeerView Digital, EmphaSize and LesionMetrics require workstations that conform to proper display of those features. They can be disabled for use with non-conformant workstations. Customer needs to check with their workstation vendor to verify compatibility. <p>"This item is for use with 2D Images only."</p>			
1	<p>SecurView(DX) SV400 Workstation - SecurView(DX) SV400 Workstation</p>			

	<p>SecurView(DX) SV400 is cleared under a 510(k) submission for display, manipulation, and interpretation of FFD images (from any vendor), as well as any other DICOM multi-modality image.</p> <p>System Specifications:</p> <p>High End Workstation High End, Double Quad Core Processor Windows Based System (2.0GHz or higher) 6GB High Speed RAM (3) 2TB SAS drives in RAID 5 array 10/100/1000 Base T Ethernet Network Interface</p> <p>Display Hardware Barco High Brightness 5MP Display (Barco model MDMG-5221) High End 10-bit Medical Grade Display Cards for high brightness</p> <p>Attached Devices Mouse Keyboard Dedicated Workflow Keypad Designed for Mammography Applications Power UPS</p> <p>Software Windows 7 Operating System Dedicated Mammography Based Reviewing Software (User Specific Hanging Protocols, Workflow, etc) Integrated CAD Display (CAD Software and Systems sold separately) Automated Display QC Software DICOM Connectivity - Print Store, Query/Retrieve, CAD SR Objects, Grayscale Software Presentation State Objects</p> <p>Manuals User Manual Installation Manual</p> <p>Options: Advanced Multimodality Package, Application Synchronization Module, SecurView(DX) Manager, Barcode Scanner</p>			
1	<p>SXCH-SYS-100 - SecurXchange Router</p> <p>The SecurXchange Router is used to automate workflow in the transfer of DICOM objects. It consists of software loaded onto a 2U rack mountable server class computer, configured with RAID-6 storage. SecurXchange can be configured to pre-fetch DICOM images or other objects from long term storage, to route DICOM objects to configured destinations according to advanced routing rules, and to apply compression and decompression of images for transfer over low bandwidth networks.</p>			
4	<p>ASY-04662 - Dimensions Paddle Rack</p> <p>Paddle storage rack designed for use with all Selenia Dimensions configurations. Rack holds approximately 3-4 Dimensions paddles. Hologic recommends a minimum of 3 racks for Dimensions with AWS 8000 and a minimum of 2 racks for Dimensions with AWS 5000.</p> <p>Approximate paddle rack dimensions:</p> <p>Length: 36 1/4" Depth: 4" (from the wall out) Height: 7"</p> <p>Pitch of 12" to 14" when multiple racks are installed over each other.</p> <p>Price includes wall mounting bracket component. Does not include installation.</p>			
Equipment Total:				
List Price Total:				
Discount:				
Final Quote Price:				

Warranty Information:

12 Months Parts and Labor

Notes:

Trade In Includes:

GE Radiologist workstation -SLDG0600028N

CAD

GE 2007- D1S06278

Hologic's assigned contract # is SPM2D1-09-D-8334 (DSCP contract #) and V797P-6035(b) (VA contract #) - start date April 7, 2009

675-B27007

TRADE IN

XR-U/S, VAMC ORLANDO, FL

TUS-A500.000

**APLIO™ 500 ULTRASOUND IMAGING
SYSTEM**

APLIO™ 500 ULTRASOUND IMAGING
SYSTEM

DICOM

RELIANCE TECHNOLOGY PROTECTION
PROGRAM

MULTI-FREQUENCY LINEAR
TRANSDUCER, SMALL PARTS

MULTI-FREQUENCY LINEAR
TRANSDUCER

MULTI-FREQUENCY LINEAR
TRANSDUCER

MULTI-FREQUENCY CONVEX
TRANSDUCER

MULTI-FREQUENCY MICRO-CONVEX
TRANSDUCER

MULTI-FREQUENCY CONVEX
ENDOVAGINAL TRANSDUCER

ELASTOGRAPHY SOFTWARE

MICRO PURE IMAGING

QUICK ASSIST PROTOCOLS

PANORAMIC VIEW

BARCODE READER

GEL WARMER

CUSTOMIZED ULTRASOUND TRAINING

ACCRUED BIOMED TRAINING - TUITION
ONLY

- Includes 12 month Service Warranty.

TUS-A500.000

APLIO 500 ULTRASOUND IMAGING SYSTEM

Quotation includes a trade-in.

Toshiba's flagship ultrasound system, the Aplio™ 500, features industry-first, technological developments that provide premium image quality and operator effectiveness never before available.

High-density beamformer architecture uses the most advanced digital signal-processing technology and forms the foundation for advanced, real-time imaging applications and breakthrough technologies to see more and do more in the diagnosis and treatment of patients.

High density rendering enables comprehensive 3-D/4-D imaging to extend diagnostic capabilities, delivering unrivaled detail and resolution.

iStyle™+ Productivity Suite features the industry's most customizable user interface, along with numerous other workflow automation tools designed for operator comfort, efficiency and effectiveness.

STANDARD COMPONENTS

- Aplio 500 Ultrasound Imaging System
- Tissue Doppler Imaging (TDI)
- ApliPure+™
- Differential Tissue Harmonic Imaging (D-THI)
- Precision Imaging
- Quick Start Presets

- Quick Scan
- Trapezoid Imaging
- Advanced Dynamic Flow™ (ADF)
- Tissue Specific Optimization (TSO)
- Auto-Intima Media Thickness (A-IMT)
- 19" LCD monitor with articulated arm and handle
- Built-in DVD/CD drive with writer
- 5 USB Ports

KEY FEATURES

Extraordinary Image Quality

Toshiba's new image architecture – **High-Density Beamformer** – provides unprecedented image resolution and detail. This enables Aplio to deliver information quickly and reliably through an array of unique imaging technologies, including the following:

Next-Generation Precision Imaging

A multi-resolution signal-processing technique that enhances the definition of structures and sharpens borders to separate clinical information from clutter and noise for a more accurate representation of patient anatomy.

Differential Tissue Harmonic Imaging (D-THI)

An exclusive Toshiba patented technology, D-THI works with BT technology transducers. It provides improved visualization and definition of lesions, cysts and subtle tissue characteristics while scanning at increased depth and on difficult-to-image patients.

ApliPure™

The next generation of real-time compound-imaging technology. ApliPure uses simultaneous spatial and frequency compounding to deliver images of outstanding clarity and detail.

Tissue Specific Optimization (TSO)

Automatically corrects for the speed of sound through different tissues; particularly helpful for difficult-to-image patients.

Advanced Dynamic Flow

Provides high-resolution color imaging of micro-vessels within tumors and organs. Provides superior resolution compared to conventional color or power Doppler by applying the same ultra-high bandwidth normally used in grayscale to Doppler signal processing.

High Density Rendering

3-D/4-D volume imaging provides an ultra-high-level of 3-D detail and resolution. Captures volume data sets at high-volume rates for shorter exam times and greater productivity.

Auto-IMT

Provides a measurement of the intima-media thickness of the arterial wall to detect the presence and track the progression of atherosclerotic disease.

Outstanding Operability

iStyle+ Productivity Suite automates workflow and optimizes ergonomics.

Customizable User Interface

The main panel and touch-control screen (TCS) is fully customizable. Virtually all keys can be reassigned to meet individual needs, reduce learning curves and operator fatigue, and enhance workflow.

Quick Start Presets

Streamline workflow with the fully programmable sub-presets menu, which allow you to optimize image quality and color flow for a specific clinical target with a single touch of a button.

Quick Scan

Optimize 2-D image quality in all modes with a single touch. Equalizes thousands of image points, forming an image with balanced tissue brightness throughout the field-of-view.

Reliance Technology Protection Program

As an introductory product offering for the Toshiba Aplio 500 ultrasound imaging system, this quotation includes the Reliance Technology Protection Program for a full 36 months from the time of purchase. This introductory offer requires the receipt of a firm, non-contingent purchase order by March 30, 2012.

Included in the plan is one software update per year to keep customers at the latest technology level. Hardware upgrades and options not covered. Whenever possible, installation will coincide with the preventive maintenance.

GENERAL HARDWARE DESCRIPTION

Display

- 19" LCD monitor with articulated arm and handle
- Programmable, touch-command screen restores preset adjustments with one touch

Main Panel

- Fully adjustable to provide ideal interaction whether sitting or standing. Moves:
 - Up and down
 - In and out
 - Side to side
- Functions grouped around central palm controller
- Customizable to application demands and user preferences
- Programmable main panel, screen layout and touch-control screen menu
- Advanced imaging and application presets

Transducers

- Ergonomic, lightweight transducers with innovative shapes and super-flexible cables designed for superior image quality
- Six probe holders eliminate transducer changeover time
- Four active ports provide convenient transducer access for faster exams and increased throughput

Connectivity

Extensive communication and data management capabilities enable seamless integration into hospital and research environments including the following DICOM functions:

- Media Storage
- Verification
- Storage
- Print
- Storage Commitment
- MULTI FRAME (Network Transfer)
- MWM (Modality Worklist Management)
- Query/Retrieve
- MPPS (Modality Performed Procedure Step)
- Structured Reporting

Image Maker Express

The Image Maker Express is an online marketing resource designed exclusively for Toshiba customers that helps create outreach programs to generate awareness about imaging services.

- Includes positioning and messaging guides to help strategize communications efforts and tactics
- Contains product information, ready-to-use collaterals and ideas for creating custom materials to promote new imaging capabilities

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- Product images
- Clinical images
- PowerPoint presentations
- Sample brochures
- Sample press releases
- Marketing strategy tutorials
- Tips on effective presentations
- Updates at www.imagemaker.toshiba.com/express

**Offerings may vary per product*

APPLICATIONS SUPPORT

Developed with customer input, Toshiba's innovative support programs have resulted in increased customer satisfaction. These include the following:

Technical Assistance

Customer support specialists are available 24/7 to help resolve technical issues in real time. Application support specialists are also available to assist staff with protocol and image-quality issues.

Local Customer Teams

A single call mobilizes a local team of Toshiba customer engineers. With an average of 10 years of Toshiba experience and 105 hours of specialized training, they can resolve almost any performance issue.

Parts Support

A complete inventory of product parts is ready for shipment when and where they are needed, any time of day or night.

Training

Included with the purchase of Aplio is training conducted by Toshiba applications specialists registered with the American Registry of Diagnostic Medical Sonographers (ARDMS).

Training includes:

- Two days of on-site applications training
- One day of on-site follow-up applications training

Clinical Education Program

Toshiba customers receive access to the CME resources on SonoWorld via SonoBucks vouchers. Toshiba makes the SonoBucks vouchers available as an add-on to equipment and service sales, allowing customers to make a one-stop purchase of both products and education.

Additional On-Site Training

Available for purchase.

COMPONENT SUMMARY:

TUS-A500/W1

APLIO™ 500 ULTRASOUND IMAGING SYSTEM

USDI-A500A/EL

DICOM

Supports a variety of timed and gated multi-frame DICOM capabilities including:

- Verification SCU/SCP
- Storage SCU
- Modality Worklist Management SCU to support operations with HIS/RIS systems
- Storage SCU to allow studies to be stored to Aplio from remote systems such as Storage Commitment SCU and MPPS SCU workflow management and data

UL-TUS500TP

RELIANCE TECHNOLOGY PROTECTION PROGRAM

PLT-1204BT

MULTI-FREQUENCY LINEAR TRANSDUCER, SMALL PARTS

For:

- Small parts
- Breast
- Musculoskeletal
- Vascular (Doppler)

Model: PLT-1204BT

Applicable systems: SSA-790A V3.0 or later and Xario XG V2.0 or later

Imaging Frequencies: 14.0/12.0/9.3/8.0/7.2/T14.0/T12.0/T10.0/T8.0/T7.0 MHz

D-THI Frequencies: 18.0/14.0/13.0 MHz

Doppler Frequencies: 10.0/8.9/8.8/7.3/7.2/6.2/6.1/5.3 MHz

Applicable modes: B/PS-THI/D-THI/CDI/TDI/ADF/PWD/ApliPure/ApliPure+

Biopsy adapter: Same as for PLT-1204AT: CIVCO 680-088 (TG-4)

Prerequisite: Differential Tissue Harmonic Imaging (DTHI) Required

PLT-704SBT

MULTI-FREQUENCY LINEAR TRANSDUCER

7.5MHz linear transducer for vascular imaging providing high resolution and sensitivity.

- Multifrequency: 11.0/10.0/8.6/6.2/4.8/T8.4/T7.6/T7.2/T6.6/T6.2 MHz
- D-THI Frequency : 9.0/8.0 MHz
- Doppler Frequencies : 8.0/7.2/6.1/5.3/4.7/4.4 MHz
- Field Width: 38 mm

PLT-805AT

MULTI-FREQUENCY LINEAR TRANSDUCER

With wider field of view (58 mm) for:

- Small parts
- Musculoskeletal
- Imaging Frequencies :
12.0/10.0/8.6/6.2/5.0/T9.0/T8.4/T7.6/T7.2/T6.6 MHz
- D-THI Frequencies : 9 MHz
- Doppler Frequencies : 8.0/7.2/6.1/5.3/4.7/.4.4

PVT-375BT/FS

MULTI-FREQUENCY CONVEX TRANSDUCER

Specifications:

- 192 elements; 70 degree FOV; 50 mm radius
- Imaging frequencies:
6.0/5.0/4.0/2.8/1.9/T6.0/T5.5/T5.0/T4.0/T3.0 MHz
- D-THI frequencies: 5.0 MHz
- Doppler frequencies: 3.6/3.1/3.0/2.5/2.2/1.8

PVT-382BT

MULTI-FREQUENCY MICRO-CONVEX TRANSDUCER

With PS-THI and differential tissue harmonic imaging for:

- Abdominal
- OB/GYN

Specifications:

- 128 elements, 80 degree FOV, 20 mm radius
- Fundamental B-mode frequencies: 5.5/4.5/3.7/2.5/1.8 MHz
- PS-THI frequencies: T5.0/T4.4/T3.8/T3.4/T2.8 MHz
- Doppler frequencies: 3.6/3.1/3.0/2.5/2.2/1.8 MHz
- D-THI frequency: 5.0 MHz

Prerequisite: Aplio SW Version 5.5 or Higher, Xario Version 3.0 software

PVT-661VT

MULTI-FREQUENCY CONVEX ENDOVAGINAL TRANSDUCER

- Imaging Frequencies:
8.8/7.3/5.8/4.7/3.6/T8.0/T7.2/T6.6/T6.0/T5.6 MHz
- D-THI Frequencies: 7.0/6.0 MHz
- Doppler Frequencies: 6.6/6.2/5.0/4.2/3.6/3.3 MHz

USEL-A500A/EL

ELASTOGRAPHY SOFTWARE

Real-time elastography technology provides a visual representation of the elasticity of lesions following manual compressions.

USMP-A500A/EL**MICRO PURE IMAGING**

A micro-calcification visualization technology that detects isolated high-echo regions by checking correlation with the surrounding tissues. The detected region is displayed white against other tissues, which are displayed blue.

Supported transducers:

- PLT-1204BT multi-frequency linear transducer, small parts
- PLT-1204BX multi-frequency linear transducer with Micro-Slice
- PLT-805AT multi-frequency linear transducer

USPA-A500A/EL**QUICK ASSIST PROTOCOLS**

Enables automated workflow when performing complex ultrasound exams. Featuring one-click operation, Quick Assist helps increase consistency and maintain standards from start-to-finish and patient-to-patient.

USPV-A500A/EL**PANORAMIC VIEW**

- Allows for the evaluation of vessels, organs and anatomy in a large field-of-view.
- Provides for the collection of more comprehensive data sets for evaluating or identifying enlarged masses, soft tissue abnormalities and foreign bodies.
- Scans at a continuous speed without the need for probe attachments.

BL-N70UBE**BARCODE READER**

Laser handheld barcode reader.

UZGW-007A**GEL WARMER**

UL-TRAINING-99**CUSTOMIZED ULTRASOUND TRAINING**

Customized UL training program designed to specifically meet the needs of the facility. The exact program of this course will be determined at the time of order. This can be utilized on one student or multiple students. Tuition of chosen program cannot exceed \$4,000.

BIOMED TRAINING**ACCRUED BIOMED TRAINING - TUITION ONLY**

675-B27008
XR-U/S, VAMC ORLANDO, FL

TRADE IN

EQUIPMENT SUMMARY:
TUS-A500.000

**APLIO™ 500 ULTRASOUND IMAGING
SYSTEM**

APLIO™ 500 ULTRASOUND IMAGING
SYSTEM

DICOM

RELIANCE TECHNOLOGY PROTECTION
PROGRAM

MULTI-FREQUENCY LINEAR
TRANSDUCER, SMALL PARTS

MULTI-FREQUENCY LINEAR
TRANSDUCER

MULTI-FREQUENCY LINEAR
TRANSDUCER

MULTI-FREQUENCY CONVEX
TRANSDUCER

MULTI-FREQUENCY MICRO-CONVEX
TRANSDUCER

MULTI-FREQUENCY CONVEX
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ACCRUED BIOMED TRAINING: TUITION
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TUS-A500/W1

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USDI-A500A/EL

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UL-TUS500TP

RELIANCE TECHNOLOGY PROTECTION PROGRAM

PLT-1204BT

MULTI-FREQUENCY LINEAR TRANSDUCER, SMALL PARTS

For:

- Small parts
- Breast
- Musculoskeletal
- Vascular (Doppler)

Model: PLT-1204BT

Applicable systems: SSA-790A V3.0 or later and Xario XG V2.0 or later

Imaging Frequencies: 14.0/12.0/9.3/8.0/7.2/T14.0/T12.0/T10.0/T8.0/T7.0 MHz

D-THI Frequencies: 18.0/14.0/13.0 MHz

Doppler Frequencies: 10.0/8.9/8.8/7.3/7.2/6.2/6.1/5.3 MHz

Applicable modes: B/PS-THI/D-THI/CDI/TDI/ADF/PWD/ApliPure/ApliPure+

Biopsy adapter: Same as for PLT-1204AT: CIVCO 680-088 (TG-4)

Prerequisite: Differential Tissue Harmonic Imaging (DTHI) Required

PLT-704SBT

MULTI-FREQUENCY LINEAR TRANSDUCER

7.5MHz linear transducer for vascular imaging providing high resolution and sensitivity.

- Multifrequency: 11.0/10.0/8.6/6.2/4.8/T8.4/T7.6/T7.2/T6.6/T6.2 MHz
- D-THI Frequency : 9.0/8.0 MHz
- Doppler Frequencies : 8.0/7.2/6.1/5.3/4.7/4.4 MHz
- Field Width: 38 mm

PLT-805AT

MULTI-FREQUENCY LINEAR TRANSDUCER

With wider field of view (58 mm) for:

- Small parts
- Musculoskeletal
- Imaging Frequencies :
12.0/10.0/8.6/6.2/5.0/T9.0/T8.4/T7.6/T7.2/T6.6 MHz
- D-THI Frequencies : 9 MHz
- Doppler Frequencies : 8.0/7.2/6.1/5.3/4.7/.4.4

PVT-375BT/FS

MULTI-FREQUENCY CONVEX TRANSDUCER

Specifications:

- 192 elements; 70 degree FOV; 50 mm radius
- Imaging frequencies:
6.0/5.0/4.0/2.8/1.9/T6.0/T5.5/T5.0/T4.0/T3.0 MHz
- D-THI frequencies: 5.0 MHz
- Doppler frequencies: 3.6/3.1/3.0/2.5/2.2/1.8

PVT-382BT

MULTI-FREQUENCY MICRO-CONVEX TRANSDUCER

With PS-THI and differential tissue harmonic imaging for:

- Abdominal
- OB/GYN

Specifications:

- 128 elements, 80 degree FOV, 20 mm radius
- Fundamental B-mode frequencies: 5.5/4.5/3.7/2.5/1.8 MHz
- PS-THI frequencies: T5.0/T4.4/T3.8/T3.4/T2.8 MHz
- Doppler frequencies: 3.6/3.1/3.0/2.5/2.2/1.8 MHz
- D-THI frequency: 5.0 MHz

Prerequisite: Aplio SW Version 5.5 or Higher, Xario Version 3.0 software

PVT-661VT

MULTI-FREQUENCY CONVEX ENDOVAGINAL TRANSDUCER

- Imaging Frequencies:
8.8/7.3/5.8/4.7/3.6/T8.0/T7.2/T6.6/T6.0/T5.6 MHz
- D-THI Frequencies: 7.0/6.0 MHz
- Doppler Frequencies: 6.6/6.2/5.0/4.2/3.6/3.3 MHz

USEL-A500A/EL

ELASTOGRAPHY SOFTWARE

Real-time elastography technology provides a visual representation of the elasticity of lesions following manual compressions.

USMP-A500A/EL**MICRO PURE IMAGING**

A micro-calcification visualization technology that detects isolated high-echo regions by checking correlation with the surrounding tissues. The detected region is displayed white against other tissues, which are displayed blue.

Supported transducers:

- PLT-1204BT multi-frequency linear transducer, small parts
- PLT-1204BX multi-frequency linear transducer with Micro-Slice
- PLT-805AT multi-frequency linear transducer

USPA-A500A/EL**QUICK ASSIST PROTOCOLS**

Enables automated workflow when performing complex ultrasound exams. Featuring one-click operation, Quick Assist helps increase consistency and maintain standards from start-to-finish and patient-to-patient.

USPV-A500A/EL**PANORAMIC VIEW**

- Allows for the evaluation of vessels, organs and anatomy in a large field-of-view.
- Provides for the collection of more comprehensive data sets for evaluating or identifying enlarged masses, soft tissue abnormalities and foreign bodies.
- Scans at a continuous speed without the need for probe attachments.

BL-N70UBE**BARCODE READER**

Laser handheld barcode reader.

UZGW-007A**GEL WARMER**

UL-TRAINING-99**CUSTOMIZED ULTRASOUND TRAINING**

Customized UL training program designed to specifically meet the needs of the facility. The exact program of this course will be determined at the time of order. This can be utilized on one student or multiple students. Tuition of chosen program cannot exceed \$4,000.

BIOMED TRAINING**ACCRUED BIOMED TRAINING - TUITION ONLY**