Line #	Description	Qty		
1	**CX50 3D xMATRIX V2013**	**1**		

Interface:
15.0 inch high resolution display with wide viewing angle
Quick Keys and Active Mode
Laptop style Alphanumeric QWERTY keyboard
8 TGCs and 2 LGCs
Ergonomic carrying handle
Includes AC adapter , power cord and system battery pack
2 USB flash drives on system
80 GB hard drive
Internal DVD RW drive

Architecture:
All-digital compact broadband beamformer, Microfine 2D focusing with Dynamic Focal Tuning that includes Advanced X-Res signal processing, 170 dB full time input dynamic range 18,432 digitally-processed channels, Continuously variable steering in 2D, color and Doppler modes 2D Opt signal processing with 4X multi-line parallel processing and frequency compounding.

Intelligent Controls:
The CX50 has been designed to make portable exams easy and efficient. With a single button, iSCAN technology automatically samples data for a new level of 2D and Doppler optimization iSCAN one-touch Intelligent Optimization, iSCAN one-touch Intelligent Color Optimization, iSCAN Doppler one-touch optimization.

Transducers:
Supports Compact family of transducers featuring PureWave imaging technology in the S5-1, CX7-2t, C5-1, D5CWC. Also supports the high resolution S12-4, S8-3, C8-5 and L12-3 transducers. All transducers provide breakthrough frequency bandwidths and array configurations. These transducers also have ergonomically designed lightweight flexible cables and compact connectors.

Modes:
2D
M-mode
Anatomical M-mode
Color M-mode
Pulsed Wave Doppler
Color Power Angio (CPA)
Continuous Wave Doppler
Invert and Color Invert
Color compare mode
Dual mode
Duplex for simultaneous 2D and Doppler
2D Optimization Signal Processing
Live Compare
Tissue Harmonic Imaging (THI)
Reconstructed zoom with pan (read zoom)

Write zoom
Pulse Inversion Harmonic imaging
Adaptive Doppler
Adaptive Color Doppler
Color Tissue Doppler imaging
Pulsed Wave Tissue Doppler imaging
Active Native Data - manipulation of image data
Cineloop review
Acquisition, storage, and display in real-time and duplex modes of up to 500 frames
On-board workstation-class data management with thumbnail previews and storage of images, loops,and reports. Retrospective and prospective clip capture to internaldrive or removable media
Integrated DVD/CD burning capability for storage of images or export in DICOM, JPEG and .avi for PC compatibility. Philips DICOM viewer option to imbed in media transfer for easy viewing of study on most PCs.
Maintenance and Serviceability
Remote Access for Expedient Clinical and Technical Support
Flexible Service Agreements
Clinical Application and Educational Support
Scheduled Preventative Maintenance and System Optimization
DVI-I Digital Video Output

Interventional Live 3D
Next-generation capability providing true volume rendered Live 3D, Live xPlane and multiplane 2D imaging using Compact X7-2t xMATRIX TEE transducer. Includes 3D ISCAN to enhance 3D imaging. Contains new enhancements for added workflow and clinical utility – Live Full Volume, Live 3D Zoom, Live 3D and Live 3D Color. These features work in conjunction with a new and easy to use all Live 3D Target Volume Rate control that offers complete flexibility to trade off volume, frame rate and resolution. Long loop capture allows continuous volume acquisition for retrospective selection of preferred beat(s). Includes a new 3D Orientation ICON, ability to measure basic 2D measurements while in 3D imaging, Dynamic face crop and a DVI-I output for external monitors.

Clinical Education

***1 day of Implementation Onsite Training (expires 90 days after install, provided Mon-Fri during normal business hours), a 2 Day offsite TEE University (expires 365 days after install) and one subscription to E-Echocardiography.com (must be activated within 90 days of code notification). All offsite training includes travel, see travel disclaimer**

**TRAVEL Disclaimer: Travel & Accommodations for registered attendees. Each tuition 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 the course duration. 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. Note: 21 day Cancellation/Rescheduling policy is strictly enforced.

***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. Repeat training for staff non-attendance will not be accepted. Site must be patient-ready to meet training expectations.

| 2 | DICOM Package | 1 |

Dicom
Provides DICOM 3.0 network Print and Store, Performed Procedure Step (PPS), and Modality Worklist functionality. Networking capability supportable in both wired and wireless environments

Dicom Structured Reporting
Provides adult echo and vascular DICOM Structured Reporting. (Requires appropriate adult echo or vascular clinical options.

| 3 | Adult Echo/2D ICE Pkg | 1 |

Includes Adult Echo and Intracardiac Echo (2D ICE) Clinical options

Adult Echo Clinical Option
Tissue Specific Imaging software for adult cardiac ultrasound applications. Display optimization software with Tissue Specific presets for adult cardiac imaging and Doppler applications. Analysis software package includes cardiac imaging protocol measurements and configurable reports and finding codes. Active native data for post-process optimization and advanced XRES adaptive image processing for improved tissue conspicuity. iSCAN intelligent one-button optimization for adaptive gain compensation in 2D, Doppler, Tissue Doppler Imaging and LVO contrast functions. Includes Live compare mode, cardiac High-Q Automatic Doppler Analysis and respiration waveform from chest impedance. Allows operation of S5-1, Compact X7-2t and D2cwc transducers.

Intracardiac Echo Clinical Option – 2D ICE

Software to support real time 2D Intracardiac Echo imaging of cardiac structures and blood flow. Includes tissue specific presets for image optimization, as well as analysis tools. St. Jude Medical ViewFlex Xtra catheter and Catheter Interface Module purchased separately.

ICE Software is provided by Philips. To use the ICE Software with your CX50, you will need other components. The catheters and interface module can only be purchased from St. Jude Medical. Although St. Jude Medical is not currently shipping these items, it is taking orders for them. The expected availability dates and the pricing of these components can be obtained only from St. Jude Medical.

| 4 | Vascular Clinical Option | 1 |

This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral vascular, abdominal vascular and Transcrainial applications. This clinical option also includes in depth analysis and reporting packages for vascular applications. Freehand 3D is also provide within this clinical option. Allows operation for vascular applications of the C5-1, S5-1, L12-3, L15,7io, L12-5 50 and D5cwc transducers.

| 5 | Cart with Multi-port Adapter | 1 |

Highly mobile cart that features hardware module to support transducer switching among up to three imaging transducers at the touch of a button. Includes: 4 swivel wheels with 2 locking casters, rear handle, micro-positioning grips, quick-connect tray, storage shelf, footrest, internal isolation transformer, B&W printer brackets, integrated transducer connector holder, gel holders and cable management. Includes USB hub for additional connectivity.

| 6 | USA Power Cord | 1 |

| 7 | **Cardiology Quantification Bundle Vision 2012** | 1 |

Includes Cardiac Motion / Mechanics Quantification (CMQ), Strain Quantification (SQ), Region of Interest (ROI) and Intima Media Thickness (IMT) Plug ins.

Cardiac Motion / Mechanics Quantification Plug-in

Uses next-generation 2D speckle tracking technology to provide a robust and objective assessment of Left Ventricular global function and regional wall motion, deformation and timing. Provides ability to extract a wide range of motion parameters from stored datasets at any time after the actual scan, facilitating quality assurance, collaborative clinical decision making and case reviews without the need for rescanning the patient.

CMQ includes a suite of methods either based on 2D speckle tracking (CMQ, free Strain and TMAD methods) or border detection technologies (Simple/CK, Complex/CK, Other). Each method includes a "step by step" user interface and report capabilities for ease of use and fast clinical adoption. Computes regional and global strain rates among other parameters such as rotation and transmural torsion. 2D speckle tracking is based on dense tracking field technology and images acquired from transducers featuring PureWave technology ensures superb tracking performance for enhanced clinical utility. A new image quality confidence index with a user-defined threshold removes untracked segments and further ensures that diagnoses are based on the best possible information. CMQ adopts the LV 17-segment model and produces comprehensive regional and global strain using easy to read bulls eye plots.

The free Strain method offers a simple and intuitive way to assess local tissue motion and deformation. AQ/CK and Tissue Motion Annular Displacement (TMAD) methods facilitate Global Left Ventricle function, volume, and EF assessment.

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.

Region of Interest (ROI) Quantification Plug-in

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.

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.

| 8 | **D2cwc Static Transducer** | 1 |

Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications

| 9 | **S5-1 Transducer** | 1 |

Features compact connector designed for reliability and improved ergonomics. Compatible with both EPIQ and CX50 systems. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.

PureWave crystal Sector array transducer with 5 to 1 MHz extended operating frequency range for adult cardiology, abdominal, vascular, TCD and Acute Care.

| 10 | L12-3 Transducer | 1 |

Features compact connector designed for reliability and improved ergonomics. Compatible with both EPIQ and CX50 systems. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.

L12-3 fine pitched, high resolution linear array with 12 to 3 Mhz extended operating frequency range for vascular, small parts, breast, musculoskeletal, contrast regional anesthesia and acute care applications

| 11 | English Manual | 1 |

Operation Manual

| 12 | US2791 Bio CX50 CTC3 | 1 |

This course provides technical instruction for biomedical engineers (hospital engineers) on the CX50 Ultrasound System. Students receive instruction on system components, theory of operation, disassembly, reassembly, preventative maintenance and safety checks. Hands-on labs train the students to verify proper equipment operation and diagnostic troubleshooting techniques. Philips support philosophy is explained to facilitate working successfully with our support professionals.

Upon completion of this course, the student will be able to:

- Operate the system to determine basic functionality
- Collect and deliver system status and failure information (logs and settings) to Philips support organization
- Disassemble and reassemble the major parts of the system
- Perform Preventative Maintenance and Mechanical adjustments
- Back-up and restore user presets
- Install and upgrade system software
- Set-up the system for DICOM communication
- Configure/enable remote connections

Key topics:

- Features
- Theory of Operation
- Disassembly and Reassembly
- System Administration

Prerequisites: Basic computer knowledge, Basic Ultrasound and Transducer knowledge, Networking and DICOM familiarity, ESD training, Electrical Safety Testing.

Accreditation: None.
Location: CTC; Cleveland, OH, USA.

Class Length: 3 days (excludes Saturdays, Sundays, and Philips holidays)

Materials:

- Instructor-presented power point presentations and demonstration videos
- Field Service Manual
- Test is on Philips Learning Center

* PHILIPS PROPRIETARY MATERIALS SUCH AS DIAGNOSTIC SOFTWARE AND SERVICE DOCUMENTATION ARE NOT INCLUDED IN THE TRAINING AND WILL NOT BE AVAILABLE FOR USE OUTSIDE OF THE TRAINING ENVIRONMENT. THE TRAINEE MUST RETURN ALL PROPRIETARY MATERIALS RECEIVED DURING THE TRAINING AT THE END OF THE TRAINING. CUSTOMER ACKNOWLEDGES AND AGREES THAT NEITHER CUSTOMER NOR TRAINEE WILL RECEIVE A LICENSE TO SUCH PROPRIETARY MATERIALS AND THAT THE TRAINEE MAY NOT BE ABLE TO FULLY UTILIZE THE TRAINING WITHOUT THE USE OF SUCH PROPRIETARY MATERIALS. (CERTAIN LICENSES MAY BE OBTAINED THROUGH PURCHASE OF A PHILIPS RIGHTFIT SERVICE AGREEMENT.) Course dates and location to be finalized by Philips. Philips shall attempt to accommodate Customer requested dates and training location. The price quoted includes course tuition. Travel and living expenses are not included, but may be purchased separately through Philips.

IMPORTANT Notes Regarding Admission to Philips Customer Engineer Training Courses:

1. Trainee must meet all prerequisites
2. Course expires one (1) year from equipment installation date (or purchase date if sold separately)
3. Customer must sign Philips Nondisclosure statement
4. Trainee must sign Philips Nondisclosure statement
5. Customer must sign Philips terms and conditions of training

13	**Airfare to Cleveland for Biomed Training**	1

Includes one (1) participant's airfare from North American customer location to the Cleveland Training Center (CTC) in Cleveland, Ohio. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced. Expires one (1) year from the earlier of equipment delivery date or purchase date.

14	**Food Transpt Lodging for Cleveland Biomed Training**	3

Includes one (1) day of modest lodging, ground transportation, and meal expenses in Cleveland, Ohio for one (1) attendee. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced. Although this part is only for one day, it is sold in multiple quantities to account for entire length of course. Expires one (1) year from the earlier of equipment delivery date or purchase date.

15	**1st SVC Manual for Gov**	1