

XR-U/S, VAMC WASHINGTON, DC

PO# 688-B50007

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CX50 2D xMATRIX

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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
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- 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
- DICOM Networking
 - Ethernet @100Mb/second Includes DICOM wired and wireless "G" and "N".
 - Provides DICOM 3.0 network print and store and storage commitment
 - Performed Procedure Step (pps)
 - Modality Worklist
- DICOM Structured Reporting

Cineloop review

- On-board workstation-class data management with thumbnail previews and storage of images, loops, and reports. Retrospective and prospective clip capture to internal drive 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

Cinical Education

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. *Education is provided Monday - Friday during normal business hours.* 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. 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).

THE NUMBER OF ONSITE TUITIONS YOU RECEIVE MAY VARY BASED ON PURCHASED OPTIONS. PLEASE CONSULT YOUR SALES REPRESENTATIVE FOR FURTHER DETAILS

All Tuitions must be registered prior to the expiration date. The course chosen must be taken within 90 days of expiration.

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| 2 | Adult Echo Clinical Option | 1 |
| | <p>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, CX X7-2t and D2cwc transducers.</p> | |
| 3 | Stress Echo | 1 |
| | <p>Provides default protocols for 2, 3 and 4 stage pharmacological, customizable protocols up to 8 stages, 8 views and options for single, quad and multicycle acquisition. Includes Gain Save feature, add stage, add view, select multiple images, reject view, skip view, edit stage, edit view, accept stage, end stage. Ability to relabel images, pause protocol/ resume protocol or interrupt protocol. Display in normal sequential order or by stage or view.</p> | |
| 4 | Exam Protocols/Smart Exam | 1 |
| | <p>Fast Exam provides easy to use, customizable guides that help the clinician complete studies on every patient. An on screen menu, guides the clinician through the required views for a specific exam type, automatically enters annotation and build the patient report.</p> | |
| 5 | Live xPlane | 1 |
| | <p>Live xPlane
Simultaneously acquires and displays two full-resolution planes in real time. Allows independent control of tilt and rotation of second plane relative to first plane. Option requires use of Compact X7-2t TEE xMATRIX array transducer.</p> | |
| 6 | Interventional Cardiology | 1 |
| | <p>Required for CX50 xMATRIX system to support EchoNavigator functionality in Philips Allura Interventional Cardiology and Hybrid Cardiac OR environments. Provides a high bandwidth 2D and Live 3D digital navigation link for essential network communication with Philips Allura EchoNavigator system. Full functionality with Allura system requires hardware and software to be purchased on Allura system. Contact Philips Interventional X-ray (iXR) for compatibility requirements.</p> | |
| 7 | Travel Case | 1 |
| | <p>Padded wheeled travel case with front zipper pockets & telescoping handle. Includes a retractable stacking extension for transporting additional supplies and a customized transducer & gel carrying bag for up to 4 transducers. Dimensions:
Accommodates CX50 imaging system, AC adapter, separate transducer carry bag for up to 4 transducers and gel,</p> | |
| 8 | Cart with Multi-port Adapter | 1 |
| | <p>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.</p> | |

9	USA Power Cord	1
10	Cardiology Quantification Bundle Vision 2012 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.	1
11	D2cwc Static Transducer	1

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

12	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.		
13	English Manual	1
Operation Manual		
14	1st SVC Manual for Gov	1
15	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

16	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.		
17	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.		
