

1

\*\*

## **CX50 Point of Care System**

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, C9-3v and D5CWC. Also supports the high resolution L12-3 linear array transducer. 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

---

Adaptive Doppler  
 Adaptive Color Doppler  
 Color Tissue Doppler imaging  
 Pulsed Wave Tissue Doppler imaging  
 Active Native Data - manipulation of image data  
 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 embed 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

## **Clinical Education**

\*\*\*1 day of Implementation Onsite Training (expires 90 days after install, provided Mon-Fri 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.

2

## **Critical Care Bundle**

1

### **Cardiac Measurements and Calculations**

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.

### **Acute Care Clinical Option**

This clinical option includes SonoCT, Freehand 3D and Tissue Specific Imaging software that support exams typically performed in the acute care setting such as vascular access, FAST and lung imaging. Allows operation of the S5-1, L12-3, L15-7io, C9-3v, C10-3v and C5-1 transducers for acute care imaging.

## **Clinical Education**

1 Yr Online Subscription Services - One year subscription service. This may include learning modules, clinical cases, image banks, diagnosis at a glance, journal reviews ultrasound challenges and more. Customers may choose one of the following; 5 subscriptions to EMSONO or E-ECHO or one of the following courses offered by CAE Focused Cardiac Ultrasound

(FOCUS) Transthoracic Echo or Assessment of Central and Peripheral Vessels or Assessment of Pleural Space and Lung. The Philips Clinical Education Operations group will contact the customer to provide them with a subscription code and instructions to register online.

\*\* The subscription code must be activated within 90 days from code notification date. Codes are valid for 365 days from registration activation.

<b>3</b>	<b>**</b>	<b>NetLink/DICOM 3.0</b>	<b>1</b>
		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	
<b>4</b>	<b>**</b>	<b>Dicom Struct Reporting</b>	<b>1</b>
		Provides DICOM Structured Reporting for adult echo, pediatric echo, vascular and OB applications. (Requires appropriate echo, vascular or OB clinical options.)	
<b>5</b>	<b>**</b>	<b>Cart with Multi-port Adapter</b>	<b>1</b>
		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.	
<b>6</b>	<b>**</b>	<b>USA Power Cord</b>	<b>1</b>
<b>7</b>	<b>**</b>	<b>S5-1 Transducer</b>	<b>1</b>
		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.	
<b>8</b>	<b>**</b>	<b>X7-2t Transducer</b>	<b>1</b>
		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.	
		X7-2t PureWave matrix array TEE Transducer for superior 2D quality. 7 to 2 MHz extended operating frequency range. Includes M-Mode, PW doppler, CW doppler, harmonics, true electrocautery suppression, and adaptive autocool.	

### Clinical Education

X7-2T 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

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.

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

- |           |  |
|-----------|--|
| <b>9</b>  | <b>** L12-3 Transducer 1</b>   |
|           | 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  |
| <b>10</b> | <b>** English Manual 1</b>   |
|           | Operation Manual   |
| <b>11</b> | <b>** 2 Day ENT TEE U w/Travel 1</b>   |
|           | Includes one University tuition at a Philips classroom location. - A variety of one to two day C/V University course offerings are available to meet your clinical educational needs. These courses range from one to two 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. |
|           | 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 details are provided during the scheduling process.    |
| <b>12</b> | <b>** 1st SVC Manual for Gov 1</b>   |
| <b>13</b> | <b>Customer Note 1</b>   |
|           | NOTE: Patient Based Query for Modality Worklist is not supported by the CX50. By placing an order for this system, VA acknowledges that VistA DICOM compatibility is not required.   |

**1      \*\*                      C5-1 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.

C5-1 broadband, Curved Array PureWave crystal transducer with 5 to 1 MHz extended operating frequency range for abdominal, obstetrical, gynecological, interventional, vascular, contrast acute care and regional anesthesia applications.

**2      \*\*                      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
-

- |  |           |   |          |
|--|-----------|---|----------|
| <b>3</b>   | <b>**</b> | <b>Airfare to Cleveland for<br/>Biomed Training</b>           | <b>1</b> |
| <p>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.</p>   |           |   |          |
| <b>4</b>   | <b>**</b> | <b>Food Transpt Lodging for<br/>Cleveland Biomed Training</b> | <b>3</b> |
| <p>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.</p> |           |   |          |
-