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## **CX50 Point of Care System**

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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, 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)

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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  
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.

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### **Critical Care Bundle**

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#### **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>Peripheral Vascular Clinical Option</b>	<b>1</b>
		This clinical option allows visualization of the peripheral vascular anatomy for use in vein ablation procedures. It also includes Sono CT capabilities.	
<b>4</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>5</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>6</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>7</b>	**	<b>USA Power Cord</b>	<b>1</b>
<b>8</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>9</b>	**	<b>L12-3 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.	
		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</b>	<b>1</b>
		Operation Manual	
<b>11</b>	**	<b>1st SVC Manual for Gov</b>	<b>1</b>

SELECTION OF ANY OPTION WILL INCREASE THE CONTRACT PRICE BY THE AMOUNT SHOWN IN THE PRICE COLUMN. OPTIONAL EQUIPMENT PRICING VALID ONLY IF PURCHASED IN CONJUNCTION WITH EQUIPMENT QUOTED.

Line #	Part #	Description	Qty	Each	Price	Initial
1	**	<b>Cardiac Motion/Mechanics Quantification Plug-in</b>	1			

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.