

SHIP TO:  
SUPPLY WAREHOUSE B90022  
V.A. Medical Center  
7400 MERTON MINTER BLVD  
SAN ANTONIO, TX 78229 - 4404

P.O.# 671-B80020

Line #	Part #	Description	Qty
1		<b>CX50 CompactXtreme General Imaging</b>	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
- 500 GB hard drive
- Internal DVD RW drive

Architecture:

All-digital compact broadband beamformer, Microfine 2D focusing with Dynamic Focal Tuning that includes Advanced XRES signal processing, 170 dB full time input dynamic range 504,576 digitally processed channels, Windows Embedded Standard 7 Operating System, Continuously variable steering in 2D, color and Doppler modes 2D Opt signal processing with 4X multi-line parallel processing and frequency compounding. Windows Embedded Standard 7 Operating System.

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.

Smart 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.

Needle Visualization: When used in conjunction with the L12-3 or L12-5 50 linear transducers, Needle Visualization utilizes advanced electronic beam-steering technology to enhance viewing of the needle to assist the user in guiding the needle to the target anatomy.

Transducers:

The CX50 General Imaging system supports the compact family of transducers including S5-1, S12-4, S8-3, X7-2t, S7-3t, L12-5 50, L12-3, L15-7io, L10-4lap, C5-1, C10-3v, C8-5, C9-3io, D2cwc and D5cwc

(Clinical Option/Clinical Package dependent).

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

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	<ul style="list-style-type: none"> <li>• Pulsed Wave Doppler</li> <li>• Color Power Angio (CPA)</li> <li>• Continuous Wave Doppler</li> <li>• Invert and Color Invert</li> <li>• Color compare mode</li> <li>• Dual mode</li> <li>• Duplex for simultaneous 2D and Doppler</li> <li>• 2D Optimization Signal Processing</li> <li>• Live Compare</li> <li>• Tissue Harmonic Imaging (THI)</li> <li>• Reconstructed zoom with pan (read zoom)</li> <li>• Write zoom</li> <li>• Pulse Inversion Harmonic imaging</li> <li>• Adaptive Doppler</li> <li>• Adaptive Color Doppler</li> <li>• Color Tissue Doppler imaging</li> <li>• Pulsed Wave Tissue Doppler imaging</li> <li>• Active Native Data - manipulation of image data</li> </ul> <p>DICOM Networking</p> <ul style="list-style-type: none"> <li>• Ethernet @100Mb/second Includes DICOM wired and wireless g and n .</li> <li>• Provides DICOM 3.0 network print and store and storage commitment</li> <li>• Performed Procedure Step</li> <li>• Modality Worklist</li> <li>• DICOM Structured Reporting</li> </ul> <p>Cineloop review</p> <p>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</p> <p>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.</p> <p>Maintenance and Serviceability</p> <ul style="list-style-type: none"> <li>• Remote Access for Expedient Clinical and Technical Support</li> <li>• Flexible Service Agreements</li> <li>• Clinical Application and Educational Support</li> <li>• Scheduled Preventative Maintenance and System Optimization</li> </ul> <p>Security-related features</p> <ul style="list-style-type: none"> <li>• Firewall policy blocks all unnecessary ports</li> <li>• Operating System hardening</li> <li>• OS settings utilizing the DISA STIGS</li> <li>• Disable unnecessary services</li> <li>• Disable auto-run for removable media System Access Control</li> <li>• No restrictions – users may perform exams and access all previously completed exams or MWL data</li> <li>• Only patient data is locked – users may perform exams without requiring a login, but must successfully log in prior to accessing previously completed exams or Modality Worklist data.</li> <li>• Complete system is lockable – users and administrators must successfully log in prior to any system access</li> </ul> <p>Local User Management</p> <ul style="list-style-type: none"> <li>• Support for multiple unique user accounts</li> <li>• Support for multiple unique administrator accounts Remote User Management</li> <li>• Supports active directory authentication utilizing LDAP (system may not be joined to the domain)</li> </ul>			

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- Support for individual accounts or AD groups for users and administrators
- May utilize LDAP or secure LDAP

Auto logoff

- Automatically logs off a user after the specified period of inactivity, user selectable

Hard drive encryption

- System supports various hard drive encryption policies including: 128 bit, 128 bit with diffuser, 256 bit, 256 bit with diffuser

Audit log export

- Available protocols are UDP or TLS Media export security
- Provides the ability to disable export of patient data to removable media

### Safeguard

This is a standard computer administration tool used to prevent unauthorized programs (malware) from running on the ultrasound system.

### Clinical Education

**Implementation Onsite Training** - One day of basic system training is provided at your site after installation. 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).

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### Shared Service Clinical Package with Pediatrics

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This clinical option package includes the Abdominal, Vascular, OB/GYN, Musculoskeletal, Needle Visualization, Small Parts, Adult Echo, Pediatric radiology, and Pediatric echo clinical options.

Abdominal Clinical Option

This clinical option includes abdominal Tissue Specific Imaging software, SonoCT and Freehand 3D for abdominal applications. This clinical option also includes analysis and reporting packages for abdominal applications. Allows operation of the C5-1, S5-1 and L12-3 transducers for abdominal applications.

Vascular Clinical Option

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

OB/GYN Clinical Option

This clinical option includes OB/GYN Tissue Specific Imaging software, SonoCT and Freehand 3D for OB/GYN applications. This clinical option also includes in depth analysis and reporting

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	packages for OB/GYN applications. Allows operation for OB/GYN applications on the C5-1 and C10-3v transducers. The Fetal Echo preset is available on the C5-1 transducer.			
	Musculoskeletal Clinical Option			
	This clinical option includes MSK Tissue Specific Imaging software, SonoCT and Freehand 3D for MSK applications. The abdominal clinical option is also included in this package for MSK applications that require deeper penetration. This package allows for the operation of the L12-3, L12-5 50, L15-7io and C5- 1 transducers.			
	Small Parts Clinical Option			
	This clinical option includes small parts Tissue Specific Imaging software, SonoCT and Freehand 3D for a wide range of small parts applications (eg. Breast, thyroid, testicle) . This clinical option also includes analysis and reporting packages for small parts applications. Allows operation for small parts applications of the L12-3 and C5-1.			
	Adult Cardiology 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, CX7-2t, and D2cwc transducers.			
	Pediatric Radiology Clinical Option			
	Tissue Specific Imaging software for appropriate curved array and sector array transducers in pediatric ultrasound applications. Display optimization software with Tissue Specific presets for 2D imaging and Doppler applications. Analysis software package includes a general imaging protocol and report. Allows operation of S12-4, S8-3, and C8-5 transducers.			
	Pediatric Echo Clinical Option			
	Incorporates neonatal and pediatric echo imaging presets for S12-4 and S8-3 pediatric transducers, as well as pediatric presets for S5-1 and X7-2t TEE. Image optimization software includes Tissue Specific presets for 2D imaging and Doppler applications. Pediatric application includes physio (ECG) and calculations. Includes pediatric-specific analysis and supports recording of imaging loops. (NOTE: S5-1 and X7-2t require Adult Echo clinical option).			
	This clinical option also includes aCMQ, Strain Quantification, GI 3DQ, IMT, Contrast, MVI, and ROI			
	aCMQ Q-App – The Automated Cardiac Quantification Q-App automatically draws a region of interest based on the selected anatomical view, (user can edit the ROI if desired) providing an angle-independent analysis of regional myocardial-tissue velocity, displacement, strain, and strain rate, using the latest Philips speckle-tracking technology.			
	aCMQ generates measurements of the global and regional functions and reports them in a table, a 17- segment bull's eye, and a variety of waveform displays. It additionally computes LV Ejection Fraction (EF), End Systolic Volume (ESV) and End Diastolic Volume (EDV).			
	aCMQ also includes the following workflow-driven tools:			
	<ul style="list-style-type: none"> <li>• Automated border detection and Color Kinesis (CK) analysis of 2D echo images, with the ability to edit or manually draw the ROI if necessary.</li> <li>• Auto Tissue Motion Annular Displacement (aTMAD) provides global cardiac quantification based on angle-independent tracking of the cardiac valve's annular motion throughout the cardiac cycle.</li> <li>• The User Defined workflow allows traces of one or more chords within the cardiac images and computes corresponding direct tissue speed, displacement, and strain values, identified by a color code of up to 17 colors.</li> </ul>			
	Strain Quantification Q-App- The Strain Quantification Q-App evaluates regional myocardial function. The Q-App also measures the myocardial velocity from Color Tissue Doppler (aka TDI) datasets 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 display Left Ventricle mechanical events; and the user-selectable waveform display makes SQ curves easier to read.			

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	<p>GI 3DQ Q-app- The General Imaging 3D Quantification Q-App provides 3D tools that support the viewing and quantification of 3D data sets. The GI 3DQ app allows you to view, crop, rotate, access and use all visual controls a, and perform everyday measurements on 3D data sets.</p> <p>IMT Q-App – The Intima Media Thickness Q-App provides automated measurements of intima media thickness in carotids and other superficial vessels and eliminates the need to manually position cursors, minimizing the time needed to complete and IMT study</p> <p>Contrast Q-App- Contrast for general imaging and superficial applications using the C5-1 and L12-3 transducers. Works in Power Modulation (PM), Pulse Inversion (PI), Coded harmonics and flash contrast modes.</p> <p>ROI Q- App – The Region of Interest Q-App is designed to increase the consistency and reliability of acoustic measurements while reducing the effort required to successfully perform ROI analysis for contrast imaging, tissue analysis and color Doppler.</p> <p>MVI Q-App– The MicroVascular Imaging Q-App applies a motion compensation algorithm to contrast loops from Philips systems.</p>			
3	<b>Cart with Multi-port Adapter</b>	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.			
4	<b>Additional AC Power Adapter</b>	1		
	A stand-alone combination switching power supply with medical isolation and intelligent battery charger used to power the CX50 from world-wide AC power mains while charging the system's Lithium Polymer battery. Power adapter allows system to run on AC power.			
5	<b>Additional Battery Pack</b>	1		
	A multi-cell Lithium polymer smart battery pack that is internal to the CX50. Complies with UL1642, Standard for Safety for Lithium Batteries. 6.4 Amp-Hours minimum (16.8V to 10.8V) 5.17" X 5.360" X 1.14", 840 g.			
6	<b>USA Power Cord</b>	1		
7	<b>Government Security</b>	1		
	Required by all DoD customers. This option disables VNC capabilities (which if enabled would provide remote desktop support) for increased security of data.			
8	<b>L12-3 Transducer</b>	1		
	Features compact connector designed for reliability and improved ergonomics. 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			
9	<b>L12-5, 50 Transducer</b>	1		
	Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.			
	High frequency linear array transducer with 12 to 5 MHz extended operating frequency range for small parts, vascular, abdominal, and MSK applications. (Compact connector)			

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10	<b>L15-7io Transducer</b> Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.  High frequency compact linear array transducer with 15 to 7 MHz extended operating frequency range for cardiac and vascular surgery, superficial vascular, and MSK applications. (Compact connector)	1
11	<b>English Manual</b> Operation Manual	1

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