

SHIP TO: WAREHOUSE  
V.A. Medical Center  
3900 LOCH RAVEN BLVD  
BALTIMORE, MD 21218  
PO#: 512-B71008

THIS IS FOR TWO SYSTEMS

Line #	Description	Qty
1	<p><b>CX50 Point of Care System</b></p> <p>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</p> <p>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 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. Windows Embedded Standard 7 Operating System.</p> <p>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 linear transducer, 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.</p> <p>Transducers: Supports Compact family of transducers featuring PureWave imaging technology in the S5-1, X7-2t, C5- 1, D2cwc, L12-3 and the D5cwc. All transducers provide breakthrough frequency bandwidths and array configurations. These transducers also have ergonomically designed lightweight flexible cables and compact connectors.</p> <p>Modes:</p> <ul style="list-style-type: none"><li>• 2D</li><li>• M-mode</li><li>• Anatomical M-mode</li><li>• Color M-mode</li><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></ul>	

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	<ul style="list-style-type: none"> <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>	
	DICOM Networking	
	<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>	
	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	
	<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 Security-related features</li> <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 Media export security</li> <li>• Provides the ability to disable export of patient data to removable media</li> </ul>	
	System Access Control	
	<ul style="list-style-type: none"> <li>• No restrictions – users may perform exams and access all previously completed exams or MWL data</li> </ul>	
	Operating System hardening	
	<ul style="list-style-type: none"> <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 MWL data</li> <li>• Complete system is lockable – users and administrators must successfully log in prior to any system access</li> </ul>	
	User management policy	
	<ul style="list-style-type: none"> <li>• User management local <ul style="list-style-type: none"> <li>o Local user management</li> <li>o Support for multiple unique user accounts</li> <li>o Support for multiple unique administrator accounts</li> </ul> </li> <li>• User management remote <ul style="list-style-type: none"> <li>o Supports active directory authentication utilizing LDAP (system may not be joined to the domain)</li> <li>o Support for individual accounts or AD groups for users and administrators</li> <li>o May utilize LDAP or secure LDAP</li> <li>o Customer may configure the system to perform authenticated binding Password policies</li> </ul> </li> <li>• Provides the ability to specify password policies for local accounts <ul style="list-style-type: none"> <li>o Minimum password length (6-14 characters)</li> </ul> </li> </ul>	

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	<ul style="list-style-type: none"> <li>o Maximum password length (6-63 characters)</li> <li>o Minimum password age (0-998 days)</li> <li>o Maximum password age (1-999 days)</li> <li>o Password complexity</li> </ul>	
	Account lockout policies	
	<ul style="list-style-type: none"> <li>• Lockout threshold (1-999 minutes)</li> <li>• Lockout duration (1-999 minutes)</li> <li>• Lockout counter reset (minutes)</li> </ul>	
	Auto logoff	
	o Automatically logs off a user after the specified period of inactivity, user selectable	
	Hard drive encryption	
	<ul style="list-style-type: none"> <li>• Encryption policies <ul style="list-style-type: none"> <li>o 128 bit</li> <li>o 128 bit with diffuser</li> <li>o 256 bit</li> <li>o 256 bit with diffuser</li> </ul> </li> </ul>	
	Audit log export	
	<ul style="list-style-type: none"> <li>• Audit logs may be exported</li> <li>• Available protocols are UDP or TLS</li> </ul>	

### Safeguard

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

### 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 Regional Anesthesia

This clinical option includes SonoCT, Freehand 3D and Regional Anesthesia Tissue Specific Imaging Software for procedures and exams typically performed in the regional anesthesia setting, such as superficial nerve blocks, deep nerve blocks and vascular access. This clinical option includes basic measurements and reporting. NOTE: This clinical option DOES NOT include analysis packages for vascular, OB/GYN, cardiac or GI applications.

### Clinical Education

Ed. DVD Set: Ultrasound-Guided Nerve Block - These interactive DVDs feature synchronized video and three-dimensional animation to illustrate how to perform ultrasound-assisted peripheral nerve blocks. Each block is presented step-by-step with voice-over narration and synchronized video clips of ultrasound localization of the nerve, surrounding anatomy, needle advancement, and anesthetic application. The DVDs include an ultrasound simulator, which allows you to perform real-time virtual blocks.

## 3 Cart

Highly mobile cart that includes: 4 swivel wheels with 4 locking casters, rear handle, micropositioning grips, quick-connect tray, utility drawer, 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 USB/Serial Data Transfer Converter

Line #	Description	Qty
	The convertor allows the connection of the CX50 system via the USB port and transfer of files to offline workstations accepting .XML serial data.	
5	<b>USA Power Cord</b>	
6	<b>C5-1 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.	
	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.	
7	<b>L12-3 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.	
	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	
8	<b>English Manual</b>	
	Operation Manual	

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1		<b>CX50 Point of Care System</b>	1
		<p>Interface:</p> <p>15.0 inch high resolution display with wide viewing angle</p> <p>Quick Keys and Active Mode</p> <p>Laptop style Alphanumeric QWERTY keyboard</p> <p>8 TGCs and 2 LGCs</p> <p>Ergonomic carrying handle</p> <p>Includes AC adapter, power cord and system battery pack</p> <p>500 GB hard drive Internal DVD RW drive</p> <p>Architecture:</p> <p>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 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. Windows Embedded Standard 7 Operating System.</p> <p>Intelligent Controls:</p> <p>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.</p> <p>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.</p> <p>Needle Visualization: When used in conjunction with the L12-3 linear transducer, 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.</p> <p>Transducers:</p> <p>Supports Compact family of transducers featuring PureWave imaging technology in the S5-1, X7-2t, C5- 1, D2cwc, L12-3 and the D5cwc. All transducers provide breakthrough frequency bandwidths and array configurations. These transducers also have ergonomically designed lightweight flexible cables and compact connectors.</p> <p>Modes:</p> <ul style="list-style-type: none"> <li>• 2D</li> <li>• M-mode</li> <li>• Anatomical M-mode</li> <li>• Color M-mode</li> <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> </ul>	

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