

REQUESTING SERVICE: RADIOLOGY  
SHIP TO: VA Medical Center  
V.A. Medical Center  
Warehouse  
508 Fulton Street  
DURHAM, NC 27705-3897

PURCHASE ORDER: 558-B80006

Line #	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
- 2 USB flash drives on system
- 80 GB hard drive
- Internal DVD RW drive
- Windows Embedded Standard 7 Operating System

**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)

Line #	Part #	Description	Qty
		<ul style="list-style-type: none"> <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> <li>• 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 (pps)</li> <li>• Modality Worklist</li> </ul> </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
- Remote Access for Expedient Clinical and Technical Support
- Flexible Service Agreements
- Clinical Application and Educational Support

#### **Security-related features**

##### **Firewall policy blocks all unnecessary ports**

##### **Operating System hardening**

- OS settings utilizing the DISA STIGS
- Disable unnecessary services
- Disable auto-run for removable media

##### **Media export security**

Line #	Part #	Description	Qty
		<ul style="list-style-type: none"> <li>Provides the ability to disable export of patient data to removable media</li> </ul>	

### **System Access Control**

- No restrictions – users may perform exams and access all previously completed exams or MWL data
- 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
- Complete system is lockable – users and administrators must successfully log in prior to any system access

### **User management policy**

- User management local
  - Local user management
  - Support for multiple unique user accounts
  - Support for multiple unique administrator accounts
- User management remote
  - Supports active directory authentication utilizing LDAP (system may not be joined to the domain)
  - Support for individual accounts or AD groups for users and administrators
  - May utilize LDAP or secure LDAP
  - Customer may configure the system to perform authenticated binding

### **Password policies**

- Provides the ability to specify password policies for local accounts
  - Minimum password length (6-14 characters)
  - Maximum password length (6-63 characters)
  - Minimum password age (0-998 days)
  - Maximum password age (1-999 days)
  - Password complexity

### **Account lockout policies**

- Lockout threshold (1-999 minutes)
- Lockout duration (1-999 minutes)
- Lockout counter reset (minutes)

### **Auto logoff**

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

### **Hard drive encryption**

- Encryption policies
  - 128 bit
  - 128 bit with diffuser

Line #	Part #	Description	Qty
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- 256 bit
- 256 bit with diffuser

#### Audit log export

- Audit logs may be exported
- Available protocols are UDP or TLS

#### 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).

## 2 Radiology Clinical Pkg w/Peds 1

This clinical option package includes the Abdominal, Vascular, OB/GYN, Musculoskeletal, Small Parts, and Pediatric Radiology 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 for abdominal applications of the C5-1, S5-1 and L12-3 transducers.

#### 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 packages for OB/GYN applications. Allows operation for OB/GYN applications of the C5-1 and C10-3v transducers.

#### Musculoskeletal Clinical Option

This clinical option includes MSK Tissue Specific Imaging software, SonoCT and Freehand 3D for

Line #	Part #	Description	Qty
		MSK applications. This clinical option also includes analysis and reporting packages for MSK applications. Allows operation for MSK applications of the L12-3.	
		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.	
		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.	
		Needle Visualization When used in conjunction with 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. Requires L12-3 or L12-5/50 transducer.	
3		<b>CX50 Integrated US Client - Allura Xper FD Connect</b>	1
		CX50 IUS Client SW streamlines workflow by offering synchronization of Patient ID information already entered into the Allura Xper system, as well as storage of ultrasound images within the Interventional Study folder.	
		Enables tableside control of ultrasound exams via the Allura Xper Tableside Module (TSM)	
		Seamless connection with Allura video system supports comfortable viewing of images on interventional exam room monitors	
		Operational Requirements:  CX50 Release 2 (or later) software release level.  Philips Allura Xper Release 7 (or later) in Interventional Suite. Allura Xper Integrated Ultrasound option purchased separately. (IUS functionality requires both "client" and "host" software - CX50 IUS option is "client" software).	
4		<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.	
5		<b>USA Power Cord</b>	1
6		<b>C5-1 Transducer</b>	2

Line #	Part #	Description	Qty
		Features compact connector designed for reliability and improved ergonomic 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>L12-5, 50 Transducer</b>	<b>2</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 linear array transducer with 12 to 5 MHz extended operating frequency range for small parts, vascular, abdominal, and MSK applications. (Compact connector)	
8		<b>English Manual</b>	<b>1</b>
		Operation Manual	