

V. A. Medical Center  
VAMC NEW ORLEANS  
2400 Canal St  
New Orleans, LA 70119

## THIS PROCURMENT IS FOR 7 SYSTEMS EACH SYSTEM IS LISTED BELOW

| Line # | Description           | Qty |
|--------|-----------------------|-----|
| 1      | CX50 3D xMATRIX V2013 | 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, 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)
- Continuous Wave Doppler
- Invert and Color Invert

| Line # | Description  | Qty |
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|        | <ul style="list-style-type: none"> <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

#### Interventional Live 3D

Next-generation capability providing true volume rendered Live 3D, Live xPlane and multiplane 2D imaging using Compact X7-2t xMATRIX TEE transducer. Includes 3D ISCAN to enhance 3D imaging. Contains new enhancements for added workflow and clinical utility – Live Full Volume, Live 3D Zoom, Live 3D and Live 3D Color. These features work in conjunction with a new and easy to use all Live 3D Target Volume Rate control that offers complete flexibility to trade off volume, frame rate and resolution. Long loop capture allows continuous volume acquisition for retrospective selection of preferred beat(s). Includes a new 3D Orientation ICON, ability to measure basic 2D measurements while in 3D imaging, Dynamic face crop and a DVI-I output for external monitors.

#### Clinical Education

\*\*\*2 days 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

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|        | subscription to E-Echocardiography.com (must be activated within 90 days of code notification). All offsite training includes travel, see travel disclaimer**   |     |
|        | <p>**TRAVEL Disclaimer: Travel &amp; 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 attendee (ie. Baggage fees, meals while traveling, transportation to and from customer's home airport). Details are provided during the scheduling process. Note: 21 day Cancellation/Rescheduling policy is strictly enforced.</p> <p>***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.</p> <p><i>All Tuitions must be registered prior to the expiration date. The course chosen must be taken within 90 days of expiration.</i></p>   |     |
| 2      | <b>Vascular Clinical Option</b>   | 1   |
|        | <p>CX50 : This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis . Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> <p>CX50 POC: This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis. Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> |     |
| 3      | <b>Adult Echo Clinical Option</b>   | 1   |
|        | <p>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.</p>   |     |
| 4      | <b>CX50 Integrated US Client -<br/>Allura Xper FD Connect</b>   | 1   |

| Line # | Description   | Qty |
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|        | 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).   |     |
| 5      | <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. |     |
| 6      | <b>USA Power Cord</b>   | 1   |
| 7      | <b>3D Quantification - 3DQ Basic</b>  | 1   |
|        | Cardiac 3D Quantification (3DQ) Plug-in<br>Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets from the Philips Live 3D systems; Offers viewing, cropping, slicing and quantification including distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations; 3DQ also provides Multiplanar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 3D iCrop tools.          |     |
| 8      | <b>D2cwc Static Transducer</b>  | 1   |
|        | Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications   |     |
| 9      | <b>S5-1 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.   |     |
|        | PureWave crystal Sector array transducer with 5 to 1 MHz extended operating frequency range for adult cardiology, abdominal, vascular, TCD and Acute Care.  |     |
| 10     | <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   |     |

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| 11     | <b>L15-7io Transducer</b><br>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.<br><br>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   |
| 12     | <b>English Manual</b><br>Operation Manual   | 1   |
| 13     | <b>Airfare to Cleveland for Biomed Training</b><br>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.  | 1   |
| 14     | <b>Food Transpt Lodging for Cleveland Biomed Training</b><br>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.  | 3   |
| 15     | <b>US2793 CX30/50 CTC3</b><br>Course Number: US2793<br>Class Length: 2,5 days<br>Delivery Method: Instructor-led<br>Modality: Ultrasound, Specialty<br>Location: Philips Academy Training Centers<br>Audience: Biomed Engineers<br>System code: 795074, 795075, 795076, 795096, 795097, 795114<br><br>DESCRIPTION:<br>This course provides technical instruction for biomedical engineers (hospital engineers) on the CX30 / 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.<br><br>COURSE-WARE:<br>• All course materials are on CSIP level 1<br><br>PREREQUISITES:<br>Basic computer knowledge<br>Basic Ultrasound and Transducer knowledge<br>Networking and DICOM familiarity<br>ESD training<br>Electrical Safety Testing | 1   |

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**COURSE OBJECTIVES:**

Upon completion of this course, the student will be able to:

- Operate the system to determine basic functionality
- Collect and deliver system status to Philips support organization
- Disassemble and reassemble the major parts of the system
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**KEY TOPICS:**

- Features
- Theory of Operation
- Disassembly and Reassembly

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|----|-------------------------------|----------|
| 16 | <b>1st SVC Manual for Gov</b> | <b>1</b> |
|----|-------------------------------|----------|

|    |                      |          |
|----|----------------------|----------|
| 17 | <b>Customer Note</b> | <b>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.

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| 8      | <b>D2cwc Static Transducer</b>  | 1   |
|        | Non-imaging 2 MHz PW/CW Doppler transducer for cardiac application  |     |
| 9      | <b>S5-1 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.   |     |
|        | PureWave crystal Sector array transducer with 5 to 1 MHz extended operating frequency range for adult cardiology, abdominal, vascular, TCD and Acute Care.  |     |
| 10     | <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   |     |

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|    |                               |          |
|----|-------------------------------|----------|
| 16 | <b>1st SVC Manual for Gov</b> | <b>1</b> |
|----|-------------------------------|----------|

|    |                      |          |
|----|----------------------|----------|
| 17 | <b>Customer Note</b> | <b>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.

| Line # | Description           | Qty |
|--------|-----------------------|-----|
| 1      | CX50 3D xMATRIX V2013 | 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, 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)
- Continuous Wave Doppler
- Invert and Color Invert

| Line # | Description  | Qty |
|--------|--|-----|
|        | <ul style="list-style-type: none"> <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

#### Interventional Live 3D

Next-generation capability providing true volume rendered Live 3D, Live xPlane and multiplane 2D imaging using Compact X7-2t xMATRIX TEE transducer. Includes 3D ISCAN to enhance 3D imaging. Contains new enhancements for added workflow and clinical utility – Live Full Volume, Live 3D Zoom, Live 3D and Live 3D Color. These features work in conjunction with a new and easy to use all Live 3D Target Volume Rate control that offers complete flexibility to trade off volume, frame rate and resolution. Long loop capture allows continuous volume acquisition for retrospective selection of preferred beat(s). Includes a new 3D Orientation ICON, ability to measure basic 2D measurements while in 3D imaging, Dynamic face crop and a DVI-I output for external monitors.

#### Clinical Education

\*\*\*2 days 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

| Line # | Description   | Qty |
|--------|---|-----|
|        | subscription to E-Echocardiography.com (must be activated within 90 days of code notification). All offsite training includes travel, see travel disclaimer**   |     |
|        | <p>**TRAVEL Disclaimer: Travel &amp; 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 attendee (ie. Baggage fees, meals while traveling, transportation to and from customer's home airport). Details are provided during the scheduling process. Note: 21 day Cancellation/Rescheduling policy is strictly enforced.</p> <p>***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.</p> <p><i>All Tuitions must be registered prior to the expiration date. The course chosen must be taken within 90 days of expiration.</i></p>   |     |
| 2      | <b>Vascular Clinical Option</b>   | 1   |
|        | <p>CX50 : This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis . Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> <p>CX50 POC: This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis. Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> |     |
| 3      | <b>Adult Echo Clinical Option</b>   | 1   |
|        | <p>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.</p>   |     |
| 4      | <b>CX50 Integrated US Client -<br/>Allura Xper FD Connect</b>   | 1   |

| Line # | Description   | Qty |
|--------|---|-----|
|        | <p>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.</p> <p>Enables tableside control of ultrasound exams via the Allura Xper Tableside Module (TSM)</p> <p>Seamless connection with Allura video system supports comfortable viewing of images on interventional exam room monitors</p> <p>Operational Requirements:</p> <p>CX50 Release 2 (or later) software release level.</p> <p>Philips Allura Xper Release 7 (or later) in Interventional Suite.</p> <p>Allura Xper Integrated Ultrasound option purchased separately. (IUS functionality requires both "client" and "host" software - CX50 IUS option is "client" software).</p> |     |
| 5      | <p><b>Cart with Multi-port Adapter</b></p> <p>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&amp;W printer brackets, integrated transducer connector holder, gel holders and cable management. Includes USB hub for additional connectivity.</p>   | 1   |
| 6      | <p><b>USA Power Cord</b></p>  | 1   |
| 7      | <p><b>3D Quantification - 3DQ Basic</b></p> <p>Cardiac 3D Quantification (3DQ) Plug-in<br/>Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets from the Philips Live 3D systems; Offers viewing, cropping, slicing and quantification including distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations; 3DQ also provides Multiplanar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 3D iCrop tools.</p>  | 1   |
| 8      | <p><b>D2cwc Static Transducer</b></p> <p>Non-imaging 2 MHz PW/CW Doppler transducer for cardiac application</p>   | 1   |
| 9      | <p><b>S5-1 Transducer</b></p> <p>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.</p> <p>PureWave crystal Sector array transducer with 5 to 1 MHz extended operating frequency range for adult cardiology, abdominal, vascular, TCD and Acute Care.</p>  | 1   |
| 10     | <p><b>L12-3 Transducer</b></p> <p>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.</p> <p>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</p>  | 1   |



| Line # | Description  | Qty |
|--------|--|-----|
| 11     | <b>L15-7io Transducer</b><br>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.<br><br>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   |
| 12     | <b>English Manual</b><br>Operation Manual  | 1   |
| 13     | <b>1st SVC Manual for Gov</b>  | 1   |
| 14     | <b>Customer Note</b><br>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   |

| Line # | Description           | Qty |
|--------|-----------------------|-----|
| 1      | CX50 3D xMATRIX V2013 | 1   |

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- Quick Keys and Active Mode
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- 8 TGCs and 2 LGCs
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**Architecture:**

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**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
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- Continuous Wave Doppler
- Invert and Color Invert

| Line # | Description  | Qty |
|--------|--|-----|
|        | <ul style="list-style-type: none"> <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.
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#### Interventional Live 3D

Next-generation capability providing true volume rendered Live 3D, Live xPlane and multiplane 2D imaging using Compact X7-2t xMATRIX TEE transducer. Includes 3D ISCAN to enhance 3D imaging. Contains new enhancements for added workflow and clinical utility – Live Full Volume, Live 3D Zoom, Live 3D and Live 3D Color. These features work in conjunction with a new and easy to use all Live 3D Target Volume Rate control that offers complete flexibility to trade off volume, frame rate and resolution. Long loop capture allows continuous volume acquisition for retrospective selection of preferred beat(s). Includes a new 3D Orientation ICON, ability to measure basic 2D measurements while in 3D imaging, Dynamic face crop and a DVI-I output for external monitors.

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| Line # | Description   | Qty |
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| 2      | <b>Vascular Clinical Option</b>   | 1   |
|        | <p>CX50 : This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis . Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> <p>CX50 POC: This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis. Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> |     |
| 3      | <b>Adult Echo Clinical Option</b>   | 1   |
|        | <p>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.</p>   |     |
| 4      | <b>CX50 Integrated US Client -<br/>Allura Xper FD Connect</b>   | 1   |

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|--------|---|-----|
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| 5      | <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.   |     |
| 6      | <b>USA Power Cord</b>   | 1   |
| 7      | <b>3D Quantification - 3DQ Basic</b>  | 1   |
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| 8      | <b>D2cwc Static Transducer</b>  | 1   |
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| 9      | <b>S5-1 Transducer</b>  | 1   |
|        | <p>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.</p> <p>PureWave crystal Sector array transducer with 5 to 1 MHz extended operating frequency range for adult cardiology, abdominal, vascular, TCD and Acute Care.</p>  |     |
| 10     | <b>L12-3 Transducer</b>   | 1   |
|        | <p>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.</p> <p>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</p>   |     |

| Line # | Description  | Qty |
|--------|--|-----|
| 11     | <b>L15-7io Transducer</b><br>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.<br><br>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   |
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| Line # | Part # | Description                  | Qty |
|--------|--------|------------------------------|-----|
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| Line # | Description  | Qty |
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|        | <ul style="list-style-type: none"> <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> |     |

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|        | <p>CX50 : This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis . Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> <p>CX50 POC: This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis. Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> |     |
| 3      | <b>Adult Echo Clinical Option</b>   | 1   |
|        | <p>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.</p>   |     |
| 4      | <b>CX50 Integrated US Client -<br/>Allura Xper FD Connect</b>   | 1   |

| Line # | Description   | Qty |
|--------|---|-----|
|        | <p>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.</p> <p>Enables tableside control of ultrasound exams via the Allura Xper Tableside Module (TSM)</p> <p>Seamless connection with Allura video system supports comfortable viewing of images on interventional exam room monitors</p> <p>Operational Requirements:</p> <p>CX50 Release 2 (or later) software release level.</p> <p>Philips Allura Xper Release 7 (or later) in Interventional Suite.</p> <p>Allura Xper Integrated Ultrasound option purchased separately. (IUS functionality requires both "client" and "host" software - CX50 IUS option is "client" software).</p> |     |
| 5      | <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.   |     |
| 6      | <b>USA Power Cord</b>   | 1   |
| 7      | <b>3D Quantification - 3DQ Basic</b>  | 1   |
|        | <p>Cardiac 3D Quantification (3DQ) Plug-in</p> <p>Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets from the Philips Live 3D systems; Offers viewing, cropping, slicing and quantification including distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations; 3DQ also provides Multiplanar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 3D iCrop tools.</p>   |     |
| 8      | <b>D2cwc Static Transducer</b>  | 1   |
|        | Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications   |     |
| 9      | <b>S5-1 Transducer</b>  | 1   |
|        | <p>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.</p> <p>PureWave crystal Sector array transducer with 5 to 1 MHz extended operating frequency range for adult cardiology, abdominal, vascular, TCD and Acute Care.</p>  |     |
| 10     | <b>L12-3 Transducer</b>   | 1   |
|        | <p>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.</p> <p>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</p>   |     |

| Line # | Description  | Qty |
|--------|--|-----|
| 11     | <b>L15-7io Transducer</b><br>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.<br><br>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   |
| 12     | <b>English Manual</b><br>Operation Manual  | 1   |
| 13     | <b>1st SVC Manual for Gov</b>  | 1   |
| 14     | <b>Customer Note</b><br>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   |

| Line # | Description           | Qty |
|--------|-----------------------|-----|
| 1      | CX50 3D xMATRIX V2013 | 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, 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)
- Continuous Wave Doppler
- Invert and Color Invert

| Line # | Description  | Qty |
|--------|--|-----|
|        | <ul style="list-style-type: none"> <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

#### Interventional Live 3D

Next-generation capability providing true volume rendered Live 3D, Live xPlane and multiplane 2D imaging using Compact X7-2t xMATRIX TEE transducer. Includes 3D ISCAN to enhance 3D imaging. Contains new enhancements for added workflow and clinical utility – Live Full Volume, Live 3D Zoom, Live 3D and Live 3D Color. These features work in conjunction with a new and easy to use all Live 3D Target Volume Rate control that offers complete flexibility to trade off volume, frame rate and resolution. Long loop capture allows continuous volume acquisition for retrospective selection of preferred beat(s). Includes a new 3D Orientation ICON, ability to measure basic 2D measurements while in 3D imaging, Dynamic face crop and a DVI-I output for external monitors.

#### Clinical Education

\*\*\*2 days 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

| Line # | Description   | Qty |
|--------|---|-----|
|        | subscription to E-Echocardiography.com (must be activated within 90 days of code notification). All offsite training includes travel, see travel disclaimer**   |     |
|        | <p>**TRAVEL Disclaimer: Travel &amp; 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 attendee (ie. Baggage fees, meals while traveling, transportation to and from customer's home airport). Details are provided during the scheduling process. Note: 21 day Cancellation/Rescheduling policy is strictly enforced.</p> <p>***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.</p> <p><i>All Tuitions must be registered prior to the expiration date. The course chosen must be taken within 90 days of expiration.</i></p>   |     |
| 2      | <b>Vascular Clinical Option</b>   | 1   |
|        | <p>CX50 : This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis . Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> <p>CX50 POC: This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis. Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> |     |
| 3      | <b>Adult Echo Clinical Option</b>   | 1   |
|        | <p>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.</p>   |     |
| 4      | <b>CX50 Integrated US Client -<br/>Allura Xper FD Connect</b>   | 1   |

| Line # | Description   | Qty |
|--------|---|-----|
|        | 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).   |     |
| 5      | <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. |     |
| 6      | <b>USA Power Cord</b>   | 1   |
| 7      | <b>3D Quantification - 3DQ Basic</b>  | 1   |
|        | Cardiac 3D Quantification (3DQ) Plug-in<br>Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets from the Philips Live 3D systems; Offers viewing, cropping, slicing and quantification including distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations; 3DQ also provides Multiplanar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 3D iCrop tools.          |     |
| 8      | <b>D2cwc Static Transducer</b>  | 1   |
|        | Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications   |     |
| 9      | <b>S5-1 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.   |     |
|        | PureWave crystal Sector array transducer with 5 to 1 MHz extended operating frequency range for adult cardiology, abdominal, vascular, TCD and Acute Care.  |     |
| 10     | <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   |     |

| Line # | Description  | Qty |
|--------|--|-----|
| 11     | <b>L15-7io Transducer</b><br>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.<br><br>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   |
| 12     | <b>English Manual</b><br>Operation Manual  | 1   |
| 13     | <b>1st SVC Manual for Gov</b>  | 1   |
| 14     | <b>Customer Note</b><br>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   |



| Line # | Description           | Qty |
|--------|-----------------------|-----|
| 1      | CX50 3D xMATRIX V2013 | 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
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**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:**

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**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)
- Continuous Wave Doppler
- Invert and Color Invert

| Line # | Description  | Qty |
|--------|--|-----|
|        | <ul style="list-style-type: none"> <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.
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Next-generation capability providing true volume rendered Live 3D, Live xPlane and multiplane 2D imaging using Compact X7-2t xMATRIX TEE transducer. Includes 3D ISCAN to enhance 3D imaging. Contains new enhancements for added workflow and clinical utility – Live Full Volume, Live 3D Zoom, Live 3D and Live 3D Color. These features work in conjunction with a new and easy to use all Live 3D Target Volume Rate control that offers complete flexibility to trade off volume, frame rate and resolution. Long loop capture allows continuous volume acquisition for retrospective selection of preferred beat(s). Includes a new 3D Orientation ICON, ability to measure basic 2D measurements while in 3D imaging, Dynamic face crop and a DVI-I output for external monitors.

#### Clinical Education

\*\*\*2 days 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

| Line # | Description   | Qty |
|--------|---|-----|
|        | subscription to E-Echocardiography.com (must be activated within 90 days of code notification). All offsite training includes travel, see travel disclaimer**   |     |
|        | <p>**TRAVEL Disclaimer: Travel &amp; 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 attendee (ie. Baggage fees, meals while traveling, transportation to and from customer's home airport). Details are provided during the scheduling process. Note: 21 day Cancellation/Rescheduling policy is strictly enforced.</p> <p>***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.</p> <p><i>All Tuitions must be registered prior to the expiration date. The course chosen must be taken within 90 days of expiration.</i></p>   |     |
| 2      | <b>Vascular Clinical Option</b>   | 1   |
|        | <p>CX50 : This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis . Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> <p>CX50 POC: This clinical option includes Tissue Specific Imaging software and SonoCT for Cerebrovascular, Peripheral Vascular, Abdominal Vascular and Transcranial applications. The clinical option includes in-depth analysis and reporting packages for vascular applications including Transcranial Doppler analysis. Freehand 3D is also provided within this clinical option. This clinical option enables the C5-1, S5-1, L12-3, L15-7io and D5cwc transducers for vascular applications. This clinical option also includes Needle Visualization which utilizes advanced electronic beam steering technology to enhance viewing of the needle to assist the user in guiding the needle to the targeted anatomy – needle visualization requires the L12-3 transducer.</p> |     |
| 3      | <b>Adult Echo Clinical Option</b>   | 1   |
|        | <p>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.</p>   |     |
| 4      | <b>CX50 Integrated US Client -<br/>Allura Xper FD Connect</b>   | 1   |

| Line # | Description   | Qty |
|--------|---|-----|
|        | <p>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.</p> <p>Enables tableside control of ultrasound exams via the Allura Xper Tableside Module (TSM)</p> <p>Seamless connection with Allura video system supports comfortable viewing of images on interventional exam room monitors</p> <p>Operational Requirements:</p> <p>CX50 Release 2 (or later) software release level.</p> <p>Philips Allura Xper Release 7 (or later) in Interventional Suite.</p> <p>Allura Xper Integrated Ultrasound option purchased separately. (IUS functionality requires both "client" and "host" software - CX50 IUS option is "client" software).</p> |     |
| 5      | <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.   |     |
| 6      | <b>USA Power Cord</b>   | 1   |
| 7      | <b>3D Quantification - 3DQ Basic</b>  | 1   |
|        | <p>Cardiac 3D Quantification (3DQ) Plug-in</p> <p>Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets from the Philips Live 3D systems; Offers viewing, cropping, slicing and quantification including distance measurements, area, Bi-plane LV Volume, Ejection Fraction (EF) and LV Mass calculations; 3DQ also provides Multiplanar Reconstruction (MPR) views for unlimited anatomical planes from 3D volume and new 3D iCrop tools.</p>   |     |
| 8      | <b>D2cwc Static Transducer</b>  | 1   |
|        | Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications   |     |
| 9      | <b>S5-1 Transducer</b>  | 1   |
|        | <p>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.</p> <p>PureWave crystal Sector array transducer with 5 to 1 MHz extended operating frequency range for adult cardiology, abdominal, vascular, TCD and Acute Care.</p>  |     |
| 10     | <b>L12-3 Transducer</b>   | 1   |
|        | <p>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.</p> <p>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</p>   |     |

| Line # | Description  | Qty |
|--------|--|-----|
| 11     | <b>L15-7io Transducer</b><br>Features compact connector designed for reliability and improved ergonomics. Manufactured in accordance with the European Union's Restriction of Hazardous Substances (RoHS) directive.<br><br>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   |
| 12     | <b>English Manual</b><br>Operation Manual  | 1   |
| 13     | <b>1st SVC Manual for Gov</b>  | 1   |
| 14     | <b>Customer Note</b><br>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   |