100662 CX50 CompactXtreme

System Type: New
Freight Terms: FOB Destination
Warranty Terms: Part numbers beginning with two (2) asterisks (**) are covered by a System 12 Months Warranty. All other part numbers are third (3rd) party items.
Special Notations: Contingencies must be removed 120 days before scheduled shipment to assure delivery on specified date.
Any rigging costs are the responsibility of the Purchaser.
Additional Terms:

Line #	Part #	Description	Qty
1	**NNAU893	CX50 CompactXtreme General Imaging	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 and C9-3V. 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
Color compare mode
Dual mode
Duplex for simultaneous 2D and Doppler
2D Optimization Signal Processing
Live Compare
Tissue Harmonic Imaging (THI)
Reconstructed zoom with pan (read zoom)

Line #	Part #	Description	Qty

Write zoom
Pulse Inversion Harmonic imaging
Adaptive Doppler
Adaptive Color Doppler
Color Tissue Doppler imaging
Pulsed Wave Tissue Doppler imaging
Active Native Data - manipulation of image data
Cineloop review
Acquisition, storage, and display in real-time and duplex modes of up to 500 frames
On-board workstation-class data management with thumbnail previews and storage of images, loops,and reports. Retrospective and prospective clip capture to internaldrive 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
Scheduled Preventative Maintenance and System Optimization

2 ****NNAU829** **DICOM Package** **1**

NetLink/DICOM 3.0

Provides DICOM 3.0 network print and store, commit, modality worklist. Includes print and store capabilities to network devices and CD/DVD and USB, Storage Commit, Modality Worklist. Also includes wireless DICOM hardware.

Dicom Structured Reporting

Provides Cardiac structured reporting feature to transfer measurements off the system via DICOM

3 ****NUSN014** **Shared Service Clinical Option Package** **1**

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

Abdominal Clinical Option
This clinical option includes abdominal Tissue Specific Imaging software, SonoCT and Freehand 3D for abdominal applications. This clinical option also includes analysis and reporting packages for abdominal applications. Allows operation 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 Transcrainial applications. This clinical option also includes in depth analysis and reporting packages for vascular applications. Freehand 3D is also provide 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

Line #	Part #	Description	Qty

packages for OB/GYN applications. Allows operation for OB/GYN applications of the C5-1 and C9-3V tranducers.

Musculoskeletal Clinical Option
This clinical option includes MSK Tissue Specific Imaging software, SOnoCT and Freehand 3D for 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, testical) . This clinical option also includes analysis and reporting packages for small parts applications. Allows operation for small parts applications of the L12-3 and C5-1.

Adult Cardiology Clinical Option
Tissue Specific Imaging software for adult cardiac ultrasound applications. Display optimization software with Tissue Specific presets for adult cardiac imaging and Doppler applications. Analysis software package includes cardiac imaging protocol measurements and configurable reports and finding codes. Active native data for post-process optimization and advanced XRES adaptive image processing for improved tissue conspicuity. iSCAN intelligent one-button optimization for adaptive gain compensation in 2D, Doppler, Tissue Doppler Imaging and LVO contrast functions. Includes Live compare mode, cardiac High-Q Automatic Doppler Analysis and respiration waveform from chest impedance. Allows operation of S5-1, CX X7-2t, and D2cwc transducers.

4 ****NUSM010** **Stress Echo** **1**

Provides default protocols for 2, 3 and 4 stage pharmalogical, customizable protocols up to 8 stages, 8 views and options for single, quad and multicycle acquisition. Includes Gain Save feature, add stage, add view, select multiple images, reject view, skip view, edit stage, edit view, accept stage, end stage. Ability to relabel images, pause protocol/ resume protocol or interrupt protocol. Display in normal sequential order or by stage or view.

5 ****NUSM022** **Wireless LAN** **1**

6 ****FUS5081** **S5-1 Broadband Phased Array** **1**

PureWave crystal Sector array transducer with 5 to 1 MHz extended operating frequency range for adult cardiology, abdominal, vascular, TCD and Acute Care.

7 ****FUS5082** **CX X7-2T TEE Transducer** **1**

X7-2t PureWave matrix array TEE Transducer for superior 2D quality. 7 to 2 MHz extended operating frequency range. Includes M-Mode, PW doppler, CW doppler, harmonics, true electrocautery suppression, and adaptive autocool.

Includes 1 year warranty

8 ****FUS5083** **D2cwc Static Transducer** **1**

Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications

9 ****FUS5084** **C5-1 Broadband Curved Array Transducer** **1**

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.

10 ****FUS5085** **L12-3 Linear Array Transducer** **1**

100662 CX50 CompactXtreme

Line #	Part #	Description	Qty

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.

11 ****FUS5086** **C9-3V Curved Array Transducer** **1**

C9-3V Curved Array PureWave crystal transducer with 9 to 3Mhx extended operating frequency range for endovaginal applications.

12 ****FUS7000** **English Manual** **1**

Operation Manual

13 ****FUS7000** **English Manual** **1**

Operation Manual

14 ****NNAP133** **QLAB 8.1.2 NA GI/Shs Bundle** **1**

This QLAB package is provided in conjunction with the purchase of an ultrasound system that includes a QLAB Plug-In. Includes QLAB Core Module, Intima Media Thickness (IMT) Quantification Plug-in, Region of Interest (ROI) Quantification Plug-in, Cardiac Parametric (PQ) Quantification Plug-in, Strain (SQ) Quantification Plug-in, Cardiac 2D Quantification (2DQ) Plug-in, Cardiac 3D Quantification (3DQ), Cardiac 3DQ Advanced Plug-in, Mitral Valve Quantification (MVQ) Plug-in, GI 3D Quantification (GI 3DQ) Plug-in, MicroVascular Imaging (MVI) plug-in, Elastography Analysis (EA) plug-in and CMQ (Cardiac Motion /Mechanics Quantification Plug-in).

QLAB Core Module
QLAB is designed for ultrasound clinicians who require sophisticated analysis of image data acquired on Philips ultrasound systems.
A large number of Plug-ins is available, offering a variety of powerful 2D/3D advanced quantitative capabilities.
All Plug-ins require the QLAB Core Module.

QLAB core module provides 2D viewer by default.
The 3D Viewer comes with the 3D plug-ins when ordered.
QLAB Core Module functions include review, deletion and quantification of Philips iE33, iU22, CX50, HD15, HD11, HD7, SONOS, HDI and EnVisor C.0 image files;
PC Graphic image/movie files creation in BMP, TIFF, JPEG and AVI;
Ability to remove patient information from QLAB all screens and prior exporting new PC files;
Export of quantification data into Excel-compatible spreadsheet formats;
Built-in on-line help in multiple languages.
Ultrasound data can be sent to QLAB via DICOM network connection, MOD/CD/DVD media or USB Flash Drive/Self-powered MiniDisk devices.

Intima Media Thickness (IMT) Quantification Plug-In
Provides automated measurements of intima media thickness in carotids and other superficial vessels;
Eliminates the laborious process of manually positioning cursors, minimizing the time needed to complete an IMT study.

Compatible with Philips iE33, iU22, HD15, HD11, HD7, EnVisor C.0, SONOS and HDI systems.

Region of Interest (ROI) Quantification Plug-in
On compatible files calculates Color Mean and Standard Deviation, Echo mean and Standard Deviation, VI, FI, VFI. Enables user to apply motion compensation algorithm. Provides basic trending capabilities (off cart only).

Compatible with Philips iE33, iU22, CX50, HD15, HD11, HD7, EnVisor C.0, SONOS and HDI systems.

Cardiac Parametric Quantification (PQ) Plug-In
Allows advanced review and analysis of contrast intensities within the heart;
Provides color-coded representation of contrast intensity and replenishment rate based on either Log or linear scaling.

Compatible with iE33, SONOS and HDI systems.

Strain Quantification (SQ) Plug-in
Used in the evaluation of regional myocardial function;
Measures the myocardial velocity TDI data set and derives the displacement, strain and strain rate along user-defined M-Lines;
Includes ability to overlay opening and closing of aortic and mitral valves on SQ curves to evaluate Left Ventricle mechanical events;
User-selectable waveform display makes SQ curves easier to read.

Compatible with iE33, iU22, CX50, HD15, HD11, SONOS and HDI systems.

2D Quantification (2DQ) Plug-in
Display of 2D ultrasound images;
Semi-automated border detection for cardiac chambers and vessel cavities;
Computes Areas, Volumes and advanced parameters for LV systolic and diastolic function including, LV Ejection Fraction (EF) and Fractional Area Change (FAC);
The Peak Ejection Rate (PER), Peak Rapid Filling Rate (PRFR) and Atrial Filling Fraction (AFF) are also reported;
Color Kinesis (CK) tool for provides color-coded visualization of global and regional wall motion;
TMAD allows visualization and quantification of Atrio-Ventricular Annulus planes Motion in order to assess cardiac global function in fast and reproducible way to facilitate trending report.
Compatible with Philips iE33, iU22, CX50, HD15 and HD11 systems.

Cardiac 3D Quantification (3DQ) Plug-in
Provides easy access to Live 3D, 3D Zoom, Full Volume and 3D Color data sets from the iE33, iU22 and SONOS 7500 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 iSlice generation.

Compatible with Philips iE33, iU22 and SONOS7500 systems.

Advanced 3D Quantification (3DQA) Plug-in
Provides display & manipulation of dynamic three-dimensional rendering and left ventricular (LV) volumes from the SONOS 7500 Live 3D and iE33 systems;
Displays 3D Full volume renderings in grayscale or advanced colorization (map H);
MultiPlanar Reconstruction (MPR) views provides unlimited anatomical planes from 3D volume;
New iSlice generation run in the 3D viewer and is compatible with all Philips Live 3D dataset including color data, provides highly flexible short and long
axis slicing tool and display up to 4x4 equally spaced MPR views to facilitate LV function visualization assessment;
Measurements of LV endocardial Volumes, Stroke Volume (SV) and true 3D ejection fraction (EF) using a semi-automated border detection in 3D space;

Computes global and regional LV volumes based on ACC 17 segments model;
Displays global LV volume waveform and provides selective display of 17 regional volume waveforms;
Offers timing assessment for each 17 minimal regional volumes and determine a synchronicity index for all volume segments or a user-selectable group of volume segments;
Provides comprehensive report with summary of synchronicity indexes and displays regional Timing and Radial Excursion Parametric Images in Bull's eye representation.

Mitral Valve Quantification (MVQ) Plug-in
The Mitral Valve Quantification plug-in (MVQ) adds precise 2D and 3D quantification of the mitral valve anatomy and associated structures based on data acquired with Philips Live 3D Echo and the X7-2t transesophageal transducer;
While Live 3D TEE provides views never seen before, MVQ provides quantification data available for the first time for cardiologists, cardiac surgeons, anesthesiologists and interventionalists;
Based on the precise Live 3D TEE information, the MVQ plug-in provides a clinical decision support tool to improve diagnostic confidence, surgical planning, communication between clinicians and for the patient, and follow-up care;
MVQ offers three use-models/protocols to assist clinicians in defining 3D landmarks on MPR views and build a 3D model, step by step, of the mitral valve annulus, anterior and posterior leaflet segmentation, improved coaptation line and leaflet trace, as well as mitral valve spatial relationship with the papillary muscles and aortic valve;
The MVQ 3D model can be manipulated in the 3D space and be overlaid on the anatomical 3D view of the mitral valve;
A user-defined measurement set is generated and displayed as well as a comprehensive report;
In order to facilitate communication and definition of the selected results, clinicians can intuitively display each measurement on the 3D model.

Compatible with the Philips iE33 system and Live3D TEE Transducer.

GI 3DQ Plug-In
Review and display 3D data sets from the Philips iU22, iE33 and HD11 systems;
Includes MPR (Multiplanar Reconstruction) capability;
Can display as 1-up (full volume), 4-up (volume/MPR), or Direct iSlice display);
Also provides MPR rotation, basic crosshair control, rotation and movement; crosshair and MPR border graphics controls, pan and zoom controls, and export of BMP, JPEG, TIFF and AVI files;
Rotation speed control, Elevation resize for freehand volumes, Linear Measurements, Ellipse Measurements, Stacked Contour Measurements, Region of Interest (ROI) Analysis;
Works with Matrix and Mechanical Volume Transducers.

MicroVascular Imaging (MVI) Plug-in
Review contrast loops from Philips iU22 system and create MVI files; view and reprocess Philips HDI 5000 MVI files; enables user to apply motion compensation algorithm.

Compatible with Philips iU22 and HDI systems.

Elastography Analysis (EA) Plug-in
Available in both single screen and side-by-side display modes

- Ability to generate up to 10 user defined regions of interest (ROIs)
- Thumbnail display of frames
- Measurement results
- Size comparison between two ROIs

Compatible with Philips iU22 systems in Elastography mode using L12-5 transducer.

Cardiac Motion /Mechanics Quantification Plug-in
Uses next-generation 2D speckle tracking technology to provide a robust and objective assessment of Left Ventricle global function and regional wall motion, deformation and timing. Provides ability to extract a wide range of motion parameters from stored datasets at any time after the actual scan, facilitating quality assurance, collaborative clinical decision making and case reviews without the need for re-scanning the patient.

CMQ includes a suite of methods either based on 2D speckle tracking (CMQ, free Strain and TMAD methods) or border detection technologies (Simple/CK, Complex/CK, Other). Each method includes a step by step user interface and report capabilities for ease of use and fast clinical adoption.

Computes regional and global strain rates among other parameters such as rotation and transmural torsion. 2D speckle tracking is based on dense tracking field technology and images acquired from transducers featuring PureWave technology ensures superb tracking performance for enhanced clinical utility. A new image quality confidence index with a user-defined threshold removes untracked segments and further ensures that diagnoses are based on the best possible information.

CMQ adopts the LV 17-segment model and produces comprehensive regional and global strain using easy to read bulls eye plots.

The free Strain method offers a simple and intuitive way to assess local tissue motion and deformation. AQ/CK and Tissue Motion Annular Displacement (TMAD) methods facilitate Global Left Ventricle function, volume, and EF assessment.

Compatible with the Philips iE33 and iU22 systems

PC requirements for all QLAB plug-ins:

- Intel P4, Pentium M or Celeron or AMD Athlon 64 or greater processor
- Windows 2000 Service Pack 4 or greater, XP Pro Service Pack 2 or greater, Windows 2003, Windows VISTA Enterprise or Windows 7 (32 and 64 bit)
- 1 GB RAM
- 64 MB or greater AGP video card - not integrated cards
- Minimum 20 GB with 7200 rpm hard disk, preferred 80 GB with 5400 rpm
- Minimum 1024x768 pixel resolution, preferred 1280 x 1024 (SVGA) monitor with 24 or 32-bit color display
- 5.25" Magneto-Optical Drive (if transferring 2D files from SONOS to QLAB)
- 3.5" Magneto-Optical Drive (if transferring 2D files from HDI/SONOS to QLAB)
- DVD drive for transferring files from compatible Philips ultrasound systems
- Standard Windows keyboard
- Mouse with a spin wheel

QLAB is a standalone software product and therefore is subject to the ninety (90) day warranty as outlined in paragraph 9.3 of Philips Terms and Conditions.

Product Warranty, Stand-Alone Licensed Software: For a period of ninety (90) days from the date Philips makes Stand-alone Licensed Software available for first patient use, such Stand-alone Licensed Software shall substantially conform to the technical user manual that ships with the Stand-alone Licensed Software. “Standalone Licensed Software” means sales of Licensed Software without a contemporaneous purchase of a server for the Licensed Software. If Philips is not the installer of the Stand-alone Licensed Software, the foregoing warranty period shall commence upon shipment.

15 **FNA8170 1 Day PAS Onsite 3

Line #	Part #	Description	Qty

1 Day PAS Onsite - 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).

16 **FNA8171 2 Day ENT TEE U w/Travel 1

2 Day Entitlement TEE University with Travel - A variety of Live 3D TEE University course offerings are available to meet your educational needs. Live 3D TEE provides cardiologists, anesthesiologists, and cardiac surgeons novel and exiting realistic views to aid in patient care. The 2 Day ENT TEE University Tuition includes both the tuition and the corresponding travel package.

Entitlement University Tuitions expire within 365 days from system or upgrade installment date. Due to travel and scheduling requirements, a twenty-one (21) day notification of cancellation is required or training / education entitlements will be forfeited. Curriculum is subject to change without notice.

Travel & Accommodations for one (1) registered attendee. 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 up to 2 days. 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.