

VAMC DUBLIN, GA  
PO# 557-3B5007

Line #	Description	Qty
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1	iE33 2D Vision 2012 xMATRIX	1
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**Intelligent Design**

**Ergonomics:**

Unique human-centered design for comfort and convenience  
Fully articulating flicker-free 20-inch high resolution flat panel display with nearly infinite positioning adjustment  
Fully articulating control panel, including height, swivel, and slide  
Easy access transducer connectors and integrated cable storage  
Digitally enhanced 8 speaker high-fidelity stereo audio  
Integrated footrest  
Integrated storage shelves  
4 wheel swivel and swivel/brake lock control

**Architecture**

xSTREAM system architecture with capability of processing multiple data streams simultaneously built for  
2D, Panoramic, MPR, Live xPlane and Live 3D  
Next generation digital broadband acoustic beamforming, built for latest pulse shaping and coding techniques  
Dynamically scalable digital channels up to 144,000, designed to accommodate next generation of high frequency imaging and xMATRIX array configurations  
High-bit, low noise, digital circuitry with exclusive adaptive S/N achieves system dynamic range up to 180dB  
New Adaptive Broadband flow imaging automatically adjusts bandwidth for optimal flow sensitivity and resolution  
Advanced XRES Adaptive Image Processing for noise and artifact reduction to improve tissue conspicuity  
Fully independent, multiple mode Triplex operation

**Transducers**

Supports new Explora family of transducers that feature:  
Ergonomic designs with lightweight flexible cables and longer cables for some transducers  
New low-loss technology for better penetration with fewer artifacts  
Breakthrough frequency bandwidths and array configurations

**Intelligent Control**

**Interface**

High resolution interactive graphical color touch panel with adjustment for various ambient light conditions  
Easy access primary controls with Tri-state back lighting and multi-function controls  
Control panel operation of on-board peripheral devices  
Pull out alphanumeric keyboard for manual data entry  
User interface configurable for languages

## **Automation**

iSCAN intelligent one-button optimization for adaptive gain compensation  
iFOCUS intelligent focusing capability for one-button optimization of focal range position  
iOPTIMIZE intelligent optimization for one-button push that automatically adapts system performance for:  
different patient size  
different flow states  
High-Q Automatic Doppler Analysis  
Intelligent Tissue Specific  
Applications Programs  
Application-specific and User  
Definable Quicktext Automatic  
Annotation  
QuickSAVE User Defined Programs (up to 45 per transducer)

## **Data**

On-board workstation-class data management with thumbnail previews and storage of images, loops, and reports  
NetLink/DICOM 3.0 provides network print and store, commit, modality worklist, DICOM Query and Retrieve, and structured reporting for echo, pediatrics and vascular  
Retrospective and prospective clip capture to internal drive or removable media  
Integrated DVD/CD burning capability for storage of DICOM images (includes DICOM viewer) or export in JPEG and .avi for PC compatibility  
DICOM 3.0 Print and Media Store capability to internal drive or DVD/CD, network devices.  
USB port for import/export of DICOM images (includes DICOM viewer) and export of PC files.

## **Other Core Features**

Color Power Angio  
Tissue Doppler Imaging  
Cardiac Protocol - Stress Echo, with Defer Selection and Live Compare functions  
Tissue Harmonics and Pulse Inversion Harmonic Imaging  
2D, M-Mode, Pulsed, High PRF,  
Color Flow Doppler  
Duplex CW Doppler  
ECG capability  
Cineloop Image, M-Mode and Doppler Review  
High Definition Write Zoom and Read Zoom with pan features  
Chroma Imaging  
Measurement tools including: distance, depth, area, and circumference  
Volume Flow Measurements  
User Defined Calculations  
Application-specific Body Mark selections  
Alt Print Control to independently control 3 OEMs  
Advanced XRES adaptive real-time image processing  
SonoCT Real Time Compound Imaging  
Temporary ID

## **SmartExam**

SmartExam system-guided protocols with new features that include exam record and automatic mode switching to greatly improve workflow efficiencies

### **xMATRIX Performance for Adv 2D**

Provides a combination of functionality for improved workflow when using supported xMATRIX transducers in 2D modes: iRotate, Live xPlane and Enhanced 2D xMATRIX stress echo.

iRotate electronic rotation for obtaining a range of 2D images from a single window and without moving the scanning hand.

Live xPlane acquires and displays in real time two full-resolution planes simultaneously when using supported xMatrix array transducers.

Enhanced 2D xMATRIX stress echo over several beats, featuring iRotate to make acquisitions faster with more consistent views between pre and post. Also includes Live Compare and Defer Select.

### **Compact Compatibility**

Compact Compatibility SW allows the iE33 system to recognize the Compact Adaptor and allows operation of the CX X7-2t transducer.

### **Auto Doppler**

Auto Doppler provides: auto placement of color flow box and steering angles in relation to vascular structures; auto sample volume placement in the area of greatest flow velocity and Auto angle correction. Auto Doppler works on all linear transducers.

**2**

### **Performance Clinical Bundle**

**1**

Includes Pediatric, Adult and Vascular clinical options

Pediatric Echo clinical option

- Tissue Specific imaging software for specific transducers in pediatric cardiac ultrasound applications
- Display optimization software with Tissue Specific presets for pediatric cardiac imaging and Doppler applications
- Unique Analysis software package includes a dedicated pediatric cardiac imaging protocol and report, as well as fetal echo analysis
- Allows operation of S8-3, S12-4, S5-1, C5-1, C5-2, D2cwc, D5 cwc, S7-3t MiniMulti TEE and X7-2 transducers

Adult Echo clinical option

- Tissue Specific imaging software for specific transducers in adult cardiac ultrasound applications
- Display optimization software with Tissue Specific presets for adult cardiac imaging and Doppler applications
- Analysis software package includes a cardiac imaging protocol and report
- Allows operation of S8-3, S12-4, S5-1, L11-3, X3-1, X7-2, X7-2t, S7-2omni, Omni III, S7-3t, MiniMulti, D2cwc, D5cwc and L15-7io transducers

Vascular clinical option

- Tissue Specific imaging software for specific transducers in vascular ultrasound applications
- Display optimization software with Tissue Specific presets for vascular imaging and Doppler applications, including TCD and trans-orbital
- Analysis software package includes a vascular imaging protocol and report.
- Provides vascular reporting and allows operation of L8-4, L11-3, L9-3, C5-1, C5-2, C8-5, S5-1 D2cwc, D5cwc, D2tcd and L15-7io transducers

3

### 2D Quantification Adv Bundle

1

Includes: ROI Plug-in, IMT Plug-in, CMQ Plug-in and Strain Quantification Plug-in

Region of Interest (ROI) Quantification Plug-in

Designed to increase the consistency and reliability of acoustic measurements, while reducing the effort required to successfully carry out ROI analysis for contrast imaging, tissue analysis and color Doppler. On compatible files calculates Color Mean and Standard Deviation, Echo mean and Standard Deviation, VI, FI, VFI. Enables user to apply motion compensation algorithm.

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.

Cardiac Motion/Mechanics Quantification (CMQ) Plug-in

Cardiac Motion Quantification (CMQ) is based on 2D speckle tracking technology, CMQ provides a method for assessing global and regional cardiac function. It offers a suite of measurements and parametric displays to analyze trans-myocardial mechanics without Tissue Doppler imaging angle dependency limitations. Using the 17-segment ASE left ventricular model, CMQ provides additional information for many clinical applications such as ventricular wall motion and mechanical synchrony assessments.

The excellent 2D image quality provided by PureWave crystal technology allows robust multi-cycle tracking of ventricular transmural layers. You can place and observe tracking points and edit them individually at any time. Multi-directional strain computations can be derived from longitudinal, circumferential, and radial strain measurements.

CMQ also offers the unique "free strain" feature. This easy, quick, and accurate method provides the ability to assess user-defined local velocities, displacement, and deformation using an unlimited directional chords display technique. Cardiac Motion Quantification (CMQ) is based on 2D speckle tracking technology, CMQ provides a method for assessing global and regional cardiac function. It offers a suite of measurements and parametric displays to analyze trans-myocardial mechanics without Tissue Doppler imaging angle dependency limitations. Using the 17-segment ASE left ventricular model, CMQ provides additional information for many clinical applications such as ventricular wall motion and mechanical synchrony assessments.

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CMQ also offers the unique "free strain" feature. This easy, quick, and accurate method provides the ability to assess user-defined local velocities, displacement, and deformation using an unlimited directional chords display technique.

The CMQ plugin also provides TMAD (Tissue Motion Annular Displacement). TMAD provides you with a validated, ultrafast, reproducible and image-quality independent method to assess global left ventricular systolic and diastolic function.

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.

**4 D2cwc Static Transducer 1**

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

**5 X5-1 xMatrix Transducer 1**

Latest generation xMATRIX transducer with PureWave Crystal Technology. xMATRIX transducer with 5 to 1 MHz extended operating frequency range for adult echo applications in 2D, Live xPlane and Live 3D modes. Highly-functional, ergonomic design that operates in all common imaging modes, making it practical for everyday use.

**6 English Manual 1**

Operation Manual

**7 English Manual 1**

Operation Manual

**8 QLAB 9.0 NA GI/ Shs Bun 1**

***This QLAB package is only provided if purchased in conjunction with an ultrasound system that includes a QLAB Plug-In. This encompasses 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 Elastography Analysis (EA) plug-in and CMQ (Cardiac Motion /Mechanics Quantification 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 Quantification (EQ) 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; assessment of synchronicity and guidance during bi-ventricular pacing procedure;

Measures the myocardial velocity TDI data set and derives the displacement, strain and strain rate along user-defined M-Lines.

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**

Extends the diagnostic power of Live 3D Echo by providing the first semi-automated, on-cart and off-cart analysis of true LV volumes—using all the voxels to generate a full 3D endocardial border; Cardiac 3D Quantification Advanced (3DQ Advanced) revolutionizes echo quantification and extends the diagnostic power of Live 3D echo by providing the first semi-automated, on-cart and off-cart analysis of true LV volumes—using all the voxels to generate a full 3D endocardial border. This is a true 3D border with higher accuracy and less dependency on LV shape assumptions than conventional methods, which rely on sparse view analysis.

3DQ Advanced waveform display provides accurate data for assessing global function based on LV volume, ejection fraction and stroke volume. Additionally, 3DQ Advanced allows simultaneous display of 17 regional waveforms, enabling temporal comparisons between segments.

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.

iCrop capabilities with the 3D volumes.

### **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;

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.

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**

MVI uses specially designed post-processing software to map contrast agent progression. This

software plug-in measures changes in the image from frame to frame, suppressing background tissue signals and capturing additional contrast data. The additional data obtained using MVI dramatically enhances vessel conspicuity.

### **Elastography Quantification (EQ) Plug-in**

Perform parametric imaging and strain ratio analysis. Parametric imaging calculates relative strain with respect to a user defined reference region. Strain ratio allows calculation of relative strain of two regions of interest over time.

### **Cardiac Motion/Mechanics Quantification Plug-in**

Based on 2D speckle tracking technology, CMQ provides a method for assessing global and regional cardiac function. It offers a suite of measurements and parametric displays to analyze trans-myocardial mechanics without Tissue Doppler imaging angle dependency limitations. Using the 17-segment ASE left ventricular model, CMQ provides additional information for many clinical applications such as ventricular wall motion and mechanical synchrony assessments.

Compatible with the Philips iE33, iU22, CX50, HD15 systems files.

PC requirements for all QLAB plug-ins:

- Processor: Intel Core 2/Xeon, AMD Athlon 64/Opteron or greater
- Operating System:
  - Windows XP Pro Service Pack 3, 32-bit
  - Windows 2003 Server, 32-bit
  - Windows 2008 Server R2, 32-bit
  - Windows Vista, 32-bit
  - Windows 7, 32-bit or 64-bit
- Memory: 2 GB RAM
- Graphics Card: 32 64 MB or greater with H/W accelerated OpenGL support and Pixel Shader 3.0 (Intel video cards may work but are not supported)
- Hard Drive: 80 GB HD with 7200 RPM
- Monitor: Minimum 1024 x 768 resolution (SVGA) and capable of 24-bit or 32-bit color display
- Media:
  - CD-ROM/DVD Drive for transferring files from iE33, iU22, HD11 XE, HD11, HD15, HD9, CX50 and EnVisor ultrasound systems
  - 640 MB 3.5-in magneto-optical drive for transferring files from HDI ultrasound systems
  - 1.2 to 2.3 GB 5.25-in magneto-optical drive for transferring files from SONOS ultrasound systems
  - USB port for transferring files from iE33, iU22, HD9, HD15, and CX50 ultrasound systems
- Mouse with a scroll wheel and a standard Microsoft keyboard

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### **1 Day PAS Onsite**

2

**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).

\*\*\*THE NUMBER OF ONSITE TUITIONS YOU RECIEVE MAY VARY BASED ON PURCHASED OPTIONS. PLEASE CONSULT YOUR SALES REPRESENTIVE FOR FURTHER DETAILS\*\*\*

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**1 Day ENT ACT w/Travel**

**1**

**1 Day Entitlement ACT with Travel** - The 1 Day Advanced Customer Training (ACT) course with travel consists of advanced intensive training on the selected ultrasound system and includes the corresponding travel package.

Entitlement Advanced Customer Training (ACT) Tuitions expire within 180 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 1 day. 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.

\*\*\*TUIITION IS ONLY VALID WHEN PURCHASING A CONFIGURATION WITH 2D QLAB\*\*\*  
(applies to IE33 only)

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**1st SVC Manual for Gov**

**1**

Line #	Description	Qty
1	<p data-bbox="432 457 815 485"><b>Workflow, Cardiac Ultrasound</b></p> <p data-bbox="215 495 1353 583">This consulting service is designed to analyze and document a customer's current departmental workflow, and then identify ways to optimize that workflow through the use of Xcelera. Refer to Statement of Work for additional detail.</p>	1
2	<p data-bbox="432 611 727 667"><b>Customized Reporting, Cardiac Ultrasound</b></p> <p data-bbox="215 674 1305 730">A Philips Consultant provides Xcelera report configuration services for use in displaying and printing your cardiac ultrasound results.</p> <p data-bbox="215 762 778 789">Refer to Statement of Work for additional detail.</p>	1
3	<p data-bbox="432 821 786 848"><b>Xcelera R3.X Core Software</b></p> <p data-bbox="215 856 1377 1125">Xcelera is a robust multimodality cardiology image management, analysis and reporting solution that provides patient centric access to cardiology data and examinations. The system is highly configurable, scalable and customizable with the potential, via optionally available software licenses, to support cardiovascular X-ray, ultrasound, nuclear medicine, computed tomography, magnetic resonance, and electrophysiology examination types. Furthermore, optional software is available for Xcelera to retrieve electrocardiograms from certain ECG management systems. Xcelera performs the necessary functions for exam storage and review. Xcelera additionally offers various analysis and quantification packages, clinical reporting and archiving features as optional functionality.</p> <p data-bbox="215 1171 1377 1413">DICOM exams can be stored and displayed as defined in the Xcelera DICOM Conformance Statement. Xcelera supports standard DICOM functionality, including: importing exams from DICOM image acquisition devices, DICOM Query/Retrieve and DICOM Forward. Xcelera can also export exams to other systems using FTP or DICOM Store SCU protocols. In addition, Xcelera supports DICOM SR that meets the DICOM standard structure*, from any ultrasound modality (also supports legacy mappings for Philips systems: iE33, iU22, HD15, and CX50, as well as from the Siemens Sequoia (rev. 12.1) and GE Vivid I and Vivid 7 (rev 4)). Xcelera also supports DSR-TIFF ultrasound exams imported from certain Philips legacy ultrasound systems.</p> <p data-bbox="215 1459 1366 1602">Xcelera employs open architecture and industry standards-based design and is prepared for future growth. It will provide ready access and availability to past and present exams as well as final reports (if configured) as needed. The Xcelera system is fully scalable from a simple DICOM exam recorder to a single workspace configuration up to a multi-site client/server cardiology workflow solution.</p> <p data-bbox="215 1648 1377 1709">In addition to streamlining workflow in the cardiology department, advanced investigation of stored discrete data can be performed on Xcelera's database views.</p> <p data-bbox="215 1755 643 1782">This article number further includes:</p> <ul data-bbox="215 1787 1377 1929" style="list-style-type: none"> <li data-bbox="215 1787 579 1814">• The core Xcelera application.</li> <li data-bbox="215 1818 1377 1929">• A single concurrent user viewing license provides floating access to interact with a single Xcelera server and access exams. While the quantity of Xcelera clients is uncontrolled, the total number of concurrent user licenses available determines the maximum amount of simultaneous users on the Xcelera system at any moment in time.</li> </ul>	1

- Cardiac X-ray viewing application (also used for generic viewing of other exam types).
- Cardiovascular ultrasound viewing application.
- CT and MR viewing application (powered by ViewForum), if ordered separately.

NOTE: Use of the Xcelera CT and MR viewer requires Premium-grade client hardware.

- DICOM archive connectivity, which provides the ability for Xcelera to automatically store image studies on an external DICOM archive, such as a radiology PACS system. The DICOM archive connectivity feature transparently performs store, query, retrieve, and pre-fetch operations using the DICOM Store and DICOM Query/Retrieve protocols. To function, the external DICOM archive must support DICOM Storage Commit that sends Xcelera a verification message that the image studies have been received successfully. Additional services costs are required to configure DICOM archive connectivity.

NOTE: DSR-TIFF image studies will be converted to DICOM format before being forwarded to the external DICOM archive. Due to limitations of the DSR-TIFF format, image studies that are acquired as DSR-TIFF but archived as DICOM will lose color suppression and 3D ultrasound volumes when retrieved from the external DICOM archive. Measurements that were performed on the DSR-TIFF image studies will still be present on the DICOM version of the images following retrieval from the archive. Measurements will also be available via clinical reports stored in the Xcelera database. There may be other limitations when utilizing an external DICOM archive.

- One Xcelera R3.X documentation and media kit.

**NOTE:**

Concurrent user licenses for remote users, clinical reporting, analysis, and other functionality must be ordered separately.

For optimal image quality, Philips strongly recommends using the Barco MDRC-1119 and MDRC-2120 medical grade displays with all Xcelera cardiology workspaces.

The Barco MDRC-1119 (standard 19-inch size) and MDRC-2120 (optional 21-inch size for use with EP applications) medical grade displays offer high brightness, a wide viewing angle and excellent grayscale reproduction.

**Compatibility**

For the latest DICOM interoperability information, refer to the Xcelera DICOM Conformance Statement at [www.philips.com](http://www.philips.com).

\* for the following TID 5200 --- Adult Echo cardiology Procedure Report

TID 5100 --- Vascular Ultrasound Report

TID 995300 --- Philips Pediatric Ultrasound Report

TID 5220 --- Pediatric, Fetal and Congenital Cardiac Ultrasound Report

A second concurrent user license provides floating access to interact with a single Xcelera server and access exams. While the quantity of Xcelera clients is uncontrolled, the total number of concurrent user licenses available determines the maximum amount of simultaneous users on the Xcelera system at any moment in time.

**Notes**

- Requires Xcelera R3.X Core Software.
- Concurrent user licenses for remote users, clinical reporting, analysis, and other functionality must be ordered separately.

**5 CV US Reporting Concurrent User License 2**

The concurrent user license for cardiovascular ultrasound reporting provides floating access for a single user to generate echocardiography and vascular ultrasound clinical reports. The CV ultrasound reporting module automatically receives DICOM and DSR-TIFF exams and populates the clinical database, including select DICOM SR. Xcelera supports DICOM SR that meets the DICOM standard structure\*, from any ultrasound modality (also supports legacy mappings for Philips systems: iE33, iU22, HD15, and CX50, as well as from the Siemens Sequoia (rev. 12.1) and GE Vivid I and Vivid 7 (rev 4)). Xcelera also supports DSR-TIFF ultrasound exams imported from certain Philips legacy ultrasound systems.

End users can create user-defined measurements and calculations in Xcelera as well as edit labels for the default set of measurements and calculations. Measurements can populate the end users' choice of pre-configured clinical report templates that include reporting profiles, finding codes (clinical statements) and measurements. Finding codes can be customized for site-specific protocols and requirements. User-defined macros can be configured for reporting efficiencies. The reporting module provides decision support for wall motion scoring. Based on the clinician's wall scoring selection, a statement will be generated with the following format. Example: "There is a <size> <territory> wall motion abnormality with <abnormality range>." This statement, along with an anatomical or bulls-eye diagram, can be automatically incorporated into the clinical report. The module includes the SmartChart for vascular reporting for efficiency and simplification. Users can customize finding codes to describe stenosis and flow. The SmartChart will automatically populate the users' selections into the clinical report.

Note:

Requires Xcelera R3.X Core Software

For the latest DICOM interoperability information, refer to the Xcelera DICOM Conformance Statement at [www.philips.com](http://www.philips.com).

\* for the following TID 5200 --- Adult Echo cardiology Procedure Report

TID 5100 --- Vascular Ultrasound Report

TID 995300 --- Philips Pediatric Ultrasound Report

TID 5220 --- Pediatric, Fetal and Congenital Cardiac Ultrasound Report

**6 Desktop Server Dell Server, W2008 1**



This unit is connected to the LAN or any other network reachable by the Xcelera system and provides an additional 3.0 TB long term storage for Xcelera patient data. This system is intended for use as an archive, 2 must be ordered.

The two units are mirrored to provide optimal data security and availability. Data written to these units is secured by the RAID5 configuration of 4 disk drives.

Data, once stored, will not be deleted. Multiple sets can be connected for future extensions.

Each unit comprises a powerful IT3107 Network Storage Processor and 4 hot swappable and lockable hard disk-racks.

- 10/100/1000 MBit/s Ethernet
- Dimensions: 200 H x 132 B x 222 D (mm)
- Weight: approx. 5 Kg

**11 SQL 2008 Client Access License 5**

SQL Client Access license

One required for every named user that accesses the system direct or indirectly.

**12 Member Server 1**

The Xcelera Server is a Member Server on the Domain.

**13 DICOM SR Mapping Training, 3.2/3.3 1**

The New Xcelera DICOM SR Measurement Mapping tool is included in the Measurement Configuration Tool which allows mapping of “manufacturers-defined Measurements” exported in the DICOM SR format.

Often, many US systems are not validated as the 3rd party vendor makes minor changes with each build or revision. This causes challenges for every vendor creating and validating a cardiovascular PAC’s solution. With this tool DICOM SR measurements and calculations can be successfully mapped as a onetime event with multiple vendors and multiple DICOM SR compatible ultrasound systems.

Philips has created the New DICOM SR Measurement Mapping tool, which uses a Standards based solution using, the below supported Template ID’s (TID):

TID 5200: Adult Echocardiography Procedure Report

TID 5100: Vascular Ultrasound Report

Pediatric section of TID 5220: Pediatric, Fetal & Congenital Ultrasound Report

(NOTE: This template is divided into 3 sub-sections:

- 125195: Pediatric Cardiac Ultrasound Report - supported

- 125196: Fetal Cardiac Ultrasound Report – not supported

- 125197: Adult Congenital Cardiac Ultrasound Report – not supported)

Xcelera R3.2SP2 will import SR data from ultrasound carts that comply with the standard SR structure (\*SOP classes: Comprehensive and Enhanced) AND use one of the four supported (TID) SR Templates:

DICOM Standards-based Mapping Tool Features

- Automatically maps previously unmapped measurements when the DICOM attributes match Xcelera

- Allows customer to manually map previously unmapped measurements when the DICOM attributes don’t match Xcelera

- Allows customer to change existing mappings for currently mapped measurements

- Allows customer to map Calculation Results to new customer-created Value measurements

- Allows customer to ignore unwanted measurements

Philips is responsible for providing end-user training on the Measurement Mapping tool. Philips is not responsible for creating new mappings. Reporting templates will also need to be modified if using measurements not standard in the Xcelera report.

A Philips Consultant will provide eight (8) hours of contiguous Xcelera application training for your staff. Philips will use a “train the trainer” approach to the Xcelera DICOM SR Mapping training.

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**Informatics Project Labor 224**

Philips Healthcare applies disciplined project management methodology to delivery of each engagement. Our methodology closely parallels the Project Management Institute’s (PMI) worldwide -recognized framework of Initiating, Planning, Executing, Controlling and Closing. The Philips team, led by an experienced project manager, will work with you throughout the duration of the project to deliver the products and services described in this quotation. Team members typically include the following:

- Implementation Specialists - responsible for technical work such as installation and configuration of the system hardware and software
- Application Consultants – responsible working within the clinical environment providing expertise in workflow, application configuration and training
- Integration Engineer – responsible for development and testing of HIS and clinical interfaces

The work effort to implement your solution is based upon the specific configuration that has been defined in the quotation. The Statement of Work (SOW) or Project Scope Document (PSD) describes how the solution will be implemented within your environment.

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**Xcelera Application Training 16 Hrs 2**

A Philips Consultant will provide sixteen (16) hours of contiguous Xcelera application training for your staff. Philips will use a “train the trainer” approach to the Xcelera application training. Refer to Statement of Work for additional detail.