VAMC LOUISVILLE, KY
PO# 603-B30021

Line #	Description	Qty
1	iE33 V 2012 3D xMATRIX	1

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 compatiblity
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

Live 3D
Provides true volume rendered, real-time 3D and Live xPlane imaging using supported xMatrix array transducers. Includes multiple vision settings to enhance image resolution and depth perception. Provides option to trade off volume size and frame rate. Education included with Live 3D software expires 1 year from equipment delivery.

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

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   **3D Quantification Adv Bundle**   1

Includes Cardiac 3DQ Basic Plug-in and Cardiac 3DQ Advanced Plug-in

Cardiac 3D Quantification (3DQ) Plug-in
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.

Cardiac 3DQ Advanced Plug In
Provides display & manipulation of dynamic three-dimensional rendering and left ventricular (LV)
volumes from the Philips Live 3D 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;
iCrop is also available allowing easy to use controls to access the structural information within
theh dataset;
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.

4   **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.

5   **Cardiac Motion/Mechanics**   **1**
                         Quant Stress Plug-In

Designed to help objectify Stress Echo reading/review. CMQ Stress offers a unique combination of Philips 2D PureWave images, next generation 2D speckle tracking and a user interface specifically designed for stress echo exams and around stress echo users. User interface automatically adapts to the stress acquisition protocol, facilitating navigation and workflow. Provides ability to create a comprehensive summary page that displays side-by-side LV 17-segment bulls eye plots from each stress stage. Requires the purchase of CMQ plug-in.

6   **Live 3D Stress**   **1**

New expert application workflow whereby 3D volume acquisitions are integrated into established 2D stress echo protocols using iSlice in review to create four (4) standard 2D views. Flexible volume acquisition during a stress echo study, including Live volume, 1, 2 and 4 beat, and High Volume Rate (HVR) options; and iCrop capability to select the desired 3D volume view to eliminate/minimize foreshortening. Defer-selection of 3D images during acquisition for faster workflow. Automated protocols for parasternal and apical iSlice imaging. 3D stress echo integrated into protocols with pre and post echo review. User selectable slicing schemes.

7   **Mitral Valve Quantification**   **1**
                         (MVQ) Plug In

Software quantification tool to manipulate, crop, and slice Live 3D TEE mitral valve 3D volume datasets. MVQ provides 2D and 3D segmentation of the mitral valve annulus, 2D and 3D segmentation of mitral valve anterior and posterior leaflets, and assessment of lengths, distances, areas, volumes and angles of the mitral valve anatomy and associated structures. The MVQ measurements are then visualized as a 3D model overlaid on the initial 3D volume render and summarized in a final report. The measurement package includes up to 33 measurements with basic, standard and advanced mitral valve protocols. QLAB MVQ Plug-in is compatible only with Live 3D TEE datasets from a Philips Ultrasound system. (Live 3D and Live xPlane must be purchased separately).

8   **D2cwc Static Transducer   1**

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

9   **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.

10   **X7-2t xMATRIX TEE   1**
Transducer

High frequency xMATRIX sector array transesophageal transducer with PureWave Crystal technology. Fully functional transducer with 7 to 2 MHz extended operating frequency range that images in 2D, Live xPlane, Live 3D, 3D Zoom, Full Volume and 3D color modes. Includes M-Mode, PW doppler, CW doppler, harmonics, true electrocautery suppression, and adaptive autocool. Includes ECG interface cable, disinfection basin, and 1 disposable tip protector. Includes 1 year warranty.

11   **English Manual   1**

Operation Manual

12   **English Manual   1**

Operation Manual

13   **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

14   **1 Day PAS Onsite**   3

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

15   **1 Yr Online Subscription Svc   2**

One year E-ECHO subscription service for 1 participant. Includes learning modules, clinical cases, image banks, diagnosis at a glance, journal reviews ultrasound challenges and more. The Philips Clinical Education Operations group will contact the customer to provide them with a subscription code and instructions to register online. ** The subscription code must be activated within 90 days from code notification date. Codes are valid for 365 days from registration activation.

16   **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.

TUITION IS ONLY VALID WHEN PURCHASING THE X7-2T TEE PROBE
opting out of this equipment will remove this education entitlement.

17   **3 Day ENT 3DU w/Travel   1**

3 Day Entitlement 3D University with Travel - A variety of C/V, Vascular, GI and WHC University course offerings are available to meet your clinical educational needs. These courses range from one to three days in length and offer a wide range of content matter. Please refer to the course catalog for a complete listing of all university courses that you can choose from. The 3 Day ENT 3D 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 3 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.

TUITION IS ONLY VALID WHEN PURCHASING THE LIVE 3D(IE33), 3D/4D (IU22), AND OR ELASTOGRAPHY CONFIGURATIONS.
opting out of any of these options will alter your education entitlements.

18   **3 Day ENT ACT w/Travel**   **1**

3 Day Entitlement ACT with Travel - The 3 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 3 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.

TUITION IS ONLY VALID WHEN PURCHASING THE LIVE 3D AND STRESS CONFIGURATION

opting out of any of these options will alter your education entitlements.

19   **1st SVC Manual for Gov**   **1**

20   **Trade in Allowance**   **1**

Customer represents and warrants that (i) Customer has, and shall have when title passes, good and marketable title to the equipment being traded in and (ii) has the authority to effect such trade in.
Product: 100622.000 iE33 Ultrasound System
Serial Number: 45676491
Manufacturer: PHILIPS HEALTHCARE