

483-B20033

XR-US, VAMC DURHAM, NC

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| 1 | **NNAP008 | iE33 Vision 2011 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, 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

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.

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 **NUSB362 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 the 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.

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| 4 | **NUSB364 | 2D Quant Advanced 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.

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| 5 | **NUSC441 | Cardiac Motion/Mechanics Quant Stress Plug-in | 1 |
| <p>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.</p> | | | |
| 6 | **FUS7301 | D2cwc Static Transducer | 1 |
| <p>Non-imaging 2 MHz PW/CW Doppler transducer for cardiac application</p> | | | |
| 7 | **FUS7445 | X5-1 xMatrix Transducer | 1 |
| <p>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.</p> | | | |
| 8 | **FUS7000 | English Manual | 1 |
| <p>Operation Manual</p> | | | |
| 9 | **NUSA583 | Internal VCR | 1 |
| 10 | **NUSA585 | UP897 B&W Printer | 1 |
| <p>Internal UP895 black and white printer</p> | | | |
| 11 | **FUS7000 | English Manual | 1 |
| <p>Operation Manual</p> | | | |
| 12 | **NNAP134 | QLAB 8.1.2 Cardiology Bundle | 1 |
| <p>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 Elastography Analysis (EA) plug-in and CMQ (Cardiac Motion /Mechanics Quantification Plug-in).</p> <p>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.</p> | | | |

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.

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

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.

13 **FNA8175 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.

14 **FNA8173 2 Day ENT ACT w/Travel 1

2 Day Entitlement ACT with Travel- The 2 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 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.

15 **989801299678 Airfare to Cleveland for 1
Biomed Training

Includes one (1) participant's airfare from North American customer location to the Cleveland Training Center (CTC) in Cleveland, Ohio. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced. Expires one (1) year from the earlier of equipment delivery date or purchase date.

16 **989801299679 Food Transpt Lodging for 4
Cleveland Biomed Training

Includes one (1) day of modest lodging, ground transportation, and meal expenses in Cleveland, Ohio for one (1) attendee. All other expenses will be the responsibility of the attendee. Details are provided during the scheduling process. Note: Cancellation/rescheduling policy strictly enforced. Although this part is only for one day, it is sold in multiple quantities to account for entire length of course. Expires one (1) year from the earlier of equipment delivery date or purchase date.

17 **989801299720 US2787 Bio IU22_IE33 CTC 4 1
iU22 & iE33 Ultrasound Systems

Course Number: US2787
Class Length: 3.5 days
Delivery Method: Instructor-led
Modality: Ultrasound, General
Location: Philips Healthcare Academy, Best
Accreditation: Certified
Audience: Biomedical engineers, Hospital engineers

DESCRIPTION:

This course provides an introduction to supporting the iU22 and iE33 Imaging Systems. Students receive fundamental applications training required to understand some clinical uses of these systems. They learn how to image phantoms in order to assess system performance and how to minimally operate the system to better understand the needs of the Sonographer.

This course focuses upon equipment operation, maintenance, DICOM configuration and minor repair. Board level theory and system diagnostics are studied to facilitate repair. Hands-on labs train the student to verify proper equipment operation and learn diagnostic troubleshooting techniques. Philips support philosophy is explained to facilitate working successfully with our support professionals.

For course enrolment and course dates:
Please contact your local Philips representative.

COURSE-WARE:

Student Manual
All course materials are on CSIP level 1.

PREREQUISITES:

. Basic analog and digital electronics knowledge
. Ultrasound and Transducer knowledge

COURSE AIMS:

Upon completion of this course it is expected that the student will be capable of partnering with our service professionals to meet the servicing needs of the customer.

He/she will be able to:

- . Recognize (and scan phantoms) with standard views.
- . Minimally operate the Ultrasound Systems.
- . Isolate and repair minor system failures.
- . Run full system diagnostics (Normal User)

KEY TOPICS:

- . System mechanics
- . User presets backup and restore
- . Dicom setup

IMPORTANT Notes Regarding Admission to Philips Customer Engineer Training Courses:

1. Trainee must meet all prerequisites
2. Course expires one (1) year from equipment installation date (or purchase date if sold separately)
3. Customer must sign Philips Nondisclosure statement
4. Trainee must sign Philips Nondisclosure statement
5. Customer must sign Philips terms and conditions of training

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| 18 | **FNA8170 | 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. <i>Education is provided Monday - Friday during normal business hours.</i> 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. <i>Repeat training for staff non-attendance will not be accepted.</i> 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). | | |
| 19 | **FNA8204 | 1st SVC Manual for Gov | 1 |