

VAMC WEST ROXBURY, MA
PO# 523-B31018

Line #	Description	Qty
1	iU22 xMATRIX V 2012 Intelligent Design Ergonomics: Unique human-centered design for comfort and convenience Fully articulating flicker-free 20-inch wide format high resolution flat panel TFT/S-IPS display with nearly infinite positioning adjustments 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 Includes Live Volume and xPlane capability xSTREAM system architecture with capability of processing multiple data streams simultaneously built for 2D, 3D, 4D, MPR, Live Volume Imaging and Live xPlane imaging Next generation digital broadband acoustic beamforming, built for latest pulse shaping and coding techniques Up to 662,976 total digital channels High-bit, low noise, digital circuitry achieves system dynamic range up to 180dB for improved 2D performance and increased Doppler sensitivity New Adaptive Broadband flow imaging automatically adjusts bandwidth for optimal flow sensitivity and resolution Next Generation SonoCT Real-Time Compounding, with Widescreen capability and up to 9 beam-steered lines of sight 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 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 backlighting 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 in 2D and Doppler modes iFOCUS intelligent focusing capability for one-button optimization of focal range size and position	1

iOPTIMIZE intelligent optimization technologies for one-button approach to instantly adapt performance for different patient sizes, flow states and clinical requirements

High-Q Automatic Doppler Analysis

Intelligent Tissue Specific Imaging

Application-specific and user definable Quicktext Automatic Annotation

QuickSAVE User Defined Programs (up to 45 per transducer)

iSTIC on X6-1 allowing automated volume acquisition of cardiac cycle

Data

On-board workstation-class data management with thumbnail previews and storage of images, loops, and reports

Retrospective and prospective clip capture to internal drive or removable media

Integrated DVD/CD burning capability for storage of DICOM images or export in JPEG and .avi for PC compatibility

DICOM 3.0 Print and Store capability to internal drive or DVD/CD

Other Core Features

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

Color Power Angio

Tissue Harmonics and Pulse Inversion Harmonic Imaging

Basic 3D Imaging capability with MPR visualization feature

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

Ability to send X,Y & Z volume MPR's to most PACs

Live 3D

Provides Live 3D software and Live xPlane software for use with xMATRIX transducers.

(xMATRIX transducers are not included and must be purchased separately).

Panoramic Imaging

Real-time extended field-of-view composite imaging, acquired in fundamental or SonoCT mode.

iU22:

Operates on C5-2, C9-4, C8-5, L12-5, L17-5, L9-3 and V6-2 transducers.

Netlink Dicom 3.0

DICOM 3.0 compliant with support for the following functions: performed procedure step, storage commit, modality worklist, vascular structured reporting, OB structured reporting, GYN structured reporting, and cardiac structured reporting.

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Shared Services Pkg

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Includes the following:

- Abdominal Clinical Option
 - Gynecology Clinical Option
 - Vascular Clinical Option
 - Pediatric Radiology Clinical Option
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Linear Array transducer with 9 to 3 MHz extended operating frequency range for cerebrovascular and peripheral vascular applications, to include deep venous imaging. Provides unprecedented clinical performance for demanding vascular exams.

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| 7 | L12-5 50mm Broadband Linear Array transducer | 1 |
| | Fine pitch, 256 element, high resolution linear array transducer with 12 to 5 MHz extended operating frequency range for high resolution superficial applications, including small parts, breast, vascular and musculoskeletal imaging. | |
| 8 | L15-7io Intraoperative Broadband Linear Array | 1 |
| | Compact high resolution linear array transducer with 15 to 7 MHz extended operating frequency range for intraoperative vascular imaging. Also supports high-resolution superficial venous and arterial studies.
For iU22 and HD11 XE: Also validated for musculoskeletal applications.
(Requires Explora connector on HD11 XE system) | |
| | For iE33: Compact high resolution linear array transducer with 15 to 7 MHz extended operating frequency range for intraoperative vascular imaging and high resolution superficial applications, including real-time review of repairs before closure in cardiac and vascular surgeries, graft harvest investigations prior to bypass, dialysis graft evaluations and superficial venous and arterial studies | |
| 9 | L17-5 Broadband Linear Array transducer | 1 |
| | Ultra-fine pitch, 288 element, high resolution linear array transducer with 17 to 5 MHz extended operating frequency range for high resolution superficial applications, including small parts, breast, superficial vascular and musculoskeletal imaging. | |
| 10 | X6-1 Purewave xMatrix Transducer | 1 |
| | Purewave xMatrix transducer with 6-1 MHz extended operating frequencies for abdominal and OB applications. Unique high density array of over 9200 fully sampled elements allows 2D, xPlane and Live volume images. | |
| 11 | C5-1 Broadband Curved Array Transducer | 1 |
| | PureWave curved array transducer with 5 to 1 MHz extended operating frequency range. Must be at Vision 2008 or must purchase Vision 2010 or higher software upgrade. | |
| | iU22 customers:
C5-1 PureWave Curved Array for high performance OB/GYN, Abdominal and Interventional applications. Now, one transducer provides exceptional clinical performance for a wide range of patient types including obese and technically challenging patients.
iE33 customers:
For general purpose adult abdominal vascular and OB fetal echo applications. | |
| 12 | C9-5ec Broadband Curved Array transducer | 2 |
| | Curved Array transducer with 9 to 5 MHz extended operating frequency range, end-fire sector, 8 mm radius of curvature, 150 degree field-of-view, for endocavitary applications including endovaginal and endorectal. | |
| 13 | C10-3v Purewave Broadband Transducers | 1 |
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Purewave Curved array transducer with 3 to 10 MHz operating frequency range, end fire sector, 11.5 radius at curvature, 130 degree field of view for endovaginal applications.

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| 14 | Strain Elastography and Elast
PQ Package | 1 |
| | This package offers both elastography (strain Elastography) for breast and uterine and high frequency applications (Thyroid, MSK) and Elast PQ Shear Wave point quantification elastography for the liver. | |
| 15 | C5-1 Biopsy Guide | 1 |
| | 4 angle biopsy guide starter kit consisting of a reusable plastic biopsy bracket and disposable snap-on needle guides. Allows accurate placement for ultrasound-guided biopsy and drainage procedures. Supports needle sizes from 14 to 23 gauge. | |
| 16 | C9-5ec Endocavitary
Broadband Biopsy Starter Kit | 2 |
| | Kit includes disposable guide with latex covers. | |
| 17 | L9-3 Biopsy guide | 1 |
| | Biopsy guide for the L9-3 transducer | |
| 18 | Biopsy Guide/starter kit for
L12-5 50mm | 1 |
| | The L12-5 50 mm starter kit contains one reusable stainless steel biopsy guide bracket and five packages containing a polyethylene probe cover 10 x 61 cm (4" x 24"), gel, latex-free bands and tape strips. | |
| 19 | Biopsy Guide, L17-5 | 1 |
| | Biopsy guide starter kit consisting of an "infinite -angle" reusable plastic guide bracket and disposable snap-on needle guides. Allows accurate placement for ultrasound-guided biopsy and drainage procedures. Accepts 14 and 18 gauge instruments. | |
| 20 | X6-1 Biopsy Guide | 1 |
| | Biopsy guide for PureWave X6-1 xMATRIX transducer | |
| 21 | English Manual | 1 |
| | Operation Manual | |
| 22 | 2 Day ENT ACT w/Travel | 1 |
| | ement 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,

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.

27 **Food Transpt Lodging for Cleveland Biomed Training** **4**

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.

28 **US2787 Bio IU22 IE33 CTC 4** **1**

iU22 & iE33 Ultrasound Systems

Course Number: US2787

Class Length: 3.5 days (excludes Saturdays, Sundays, and Philips holidays)

Delivery Method: Instructor-led

Modality: Ultrasound, General

Location: Philips Healthcare Academy, Best or Cleveland

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.
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- . 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

* PHILIPS PROPRIETARY MATERIALS SUCH AS DIAGNOSTIC SOFTWARE AND SERVICE DOCUMENTATION ARE NOT INCLUDED IN THE TRAINING AND WILL NOT BE AVAILABLE FOR USE OUTSIDE OF THE TRAINING ENVIRONMENT. THE TRAINEE MUST RETURN ALL PROPRIETARY MATERIALS RECEIVED DURING THE TRAINING AT THE END OF THE TRAINING. CUSTOMER ACKNOWLEDGES AND AGREES THAT NEITHER CUSTOMER NOR TRAINEE WILL RECEIVE A LICENSE TO SUCH PROPRIETARY MATERIALS AND THAT THE TRAINEE MAY NOT BE ABLE TO FULLY UTILIZE THE TRAINING WITHOUT THE USE OF SUCH PROPRIETARY MATERIALS. (CERTAIN LICENSES MAY BE OBTAINED THROUGH PURCHASE OF AN ALLIANCE CO; OP AGREEMENT.) Course dates and location to be finalized by Philips. Philips shall attempt to accommodate Customer requested dates and training location. The price quoted includes course tuition. Travel and living expenses are not included, but may be purchased separately through Philips.

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