

VAMC FAYETTEVILLE, AR  
PO# 564-B30004

Line #	Description	Qty
1	<p data-bbox="432 451 584 478"><b>iU22 V 2012</b></p> <p data-bbox="215 491 440 518"><b>Intelligent Design</b></p> <p data-bbox="215 520 379 548"><b>Ergonomics:</b></p> <ul data-bbox="215 550 1369 821" style="list-style-type: none"><li>Unique human-centered design for comfort and convenience</li><li>Fully articulating flicker-free 20-inch wide format high resolution flat panel TFT/S-IPS display with nearly infinite positioning adjustments</li><li>Fully articulating control panel, including height, swivel, and slide</li><li>Easy access transducer connectors and integrated cable storage</li><li>Digitally enhanced 8 speaker high-fidelity stereo audio</li><li>Integrated footrest</li><li>Integrated storage shelves</li><li>4 wheel swivel and swivel/brake lock control</li></ul> <p data-bbox="215 869 376 896"><b>Architecture</b></p> <ul data-bbox="215 898 1378 1293" style="list-style-type: none"><li>xSTREAM system architecture with capability of processing multiple data streams simultaneously built for 2D, 3D, 4D, MPR</li><li>Next generation digital broadband acoustic beamforming, built for latest pulse shaping and coding techniques</li><li>Up to 442,368 total digital channels</li><li>High-bit, low noise, digital circuitry achieves system dynamic range up to 180dB for improved 2D performance and increased Doppler sensitivity</li><li>New Adaptive Broadband flow imaging automatically adjusts bandwidth for optimal flow sensitivity and resolution</li><li>Next Generation SonoCT Real-Time Compounding, with Widescreen capability and up to 9 beam-steered lines of sight</li><li>XRES Adaptive Image Processing for noise and artifact reduction to improve tissue conspicuity</li><li>Fully independent, multiple mode Triplex operation</li></ul> <p data-bbox="215 1341 376 1369"><b>Transducers</b></p> <ul data-bbox="215 1371 999 1486" style="list-style-type: none"><li>Supports new Explora family of transducers that feature:</li><li>Ergonomic designs with lightweight flexible cables</li><li>New low-loss technology for better penetration with fewer artifacts</li><li>Breakthrough frequency bandwidths and array configurations</li></ul> <p data-bbox="215 1535 448 1562"><b>Intelligent Control</b></p> <p data-bbox="215 1564 328 1591"><b>Interface</b></p> <ul data-bbox="215 1593 1342 1774" style="list-style-type: none"><li>High-resolution interactive graphical color touch panel with adjustment for various ambient light conditions</li><li>Easy access primary controls with tri-state backlighting and multi-function controls</li><li>Control panel operation of on-board peripheral devices</li><li>Pull out alphanumeric keyboard for manual data entry</li><li>User interface configurable for languages</li></ul> <p data-bbox="215 1822 365 1850"><b>Automation</b></p> <ul data-bbox="215 1852 1369 1936" style="list-style-type: none"><li>iSCAN intelligent one-button optimization in 2D and Doppler modes</li><li>iFOCUS intelligent focusing capability for one-button optimization of focal range size and position</li><li>iOPTIMIZE intelligent optimization technologies for one-button approach to instantly adapt</li></ul>	1

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)

**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.

**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.

**2 PureWave Bundle, C5-1 & C10-3v 1**

**C5-1 Transducer**

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.

**C10-3V Transducer**

C10-3V Transducer 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.

**3 Shared Services Pkg 1**

Includes the following:

- Abdominal Clinical Option
- Gynecology Clinical Option
- Vascular Clinical Option
- Pediatric Radiology Clinical Option
- Small Parts Clinical Option
- Musculoskeletal Clinical Option
- Adult Cardiology Clinical Option
- Obstetrical Clinical Option
- Contrast Clinical Option
- Urology Clinical Option
- TCD Clinical Option
- Interventional Clinical Option
- Tissue Doppler Imaging (TDI)

4	<b>Vascular Automated Doppler</b>	1
	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.	
5	<b>Small Parts Transducer Bundle</b>	1
	Includes L12-5 and L17-5 transducers	
6	<b>S5-1 Purewave Broadband Phased Array Transducer</b>	1
	Sector array transducer with 5 to 1 MHz extended operating frequency range for adult cardiology adult abdominal vascular, adult renal and TCD applications.	
7	<b>L9-3 Broadband Linear Array transducer</b>	1
	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.	
8	<b>D2cwc Static Transducer</b>	1
	Non-imaging 2 MHz PW/CW Doppler transducer for cardiac applications	
9	<b>English Manual</b>	1
	Operation Manual	
10	<b>1st SVC Manual for Gov</b>	1
11	<b>Airfare to Cleveland for Biomed Training</b>	1
	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.	

**12** **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.

**13** **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.
- . Minimally operate the Ultrasound Systems.
- . Isolate and repair minor system failures.
- . Run full system diagnostics (Normal User)

**KEY TOPICS:**

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- . 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