

VAMC LOS ANGELES, CA  
PO# 691-B40006

Line #	Description	Qty
1	<b>iU22 xMatrix V 2012 System</b> <b>Intelligent Design</b> <b>Ergonomics:</b> 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  <b>Architecture</b> 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  <b>Transducers</b> 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  <b>Intelligent Control</b> <b>Interface</b> 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  <b>Automation</b> 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.

### **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.

### **Clinical Education**

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**IU22 Clinical Education;** \*\*\*2 days of Implementation Onsite Training (expires 90 days after install, provided Mon-Fri during normal business hours) and a \*1 day offsite Advanced Customer Training course for one (expires 180 days after install). All offsite training includes travel, see travel disclaimer\*\*

**If you are purchasing 3D/4D with a New IU22 you will receive\***A second day of offsite Advanced Customer Training for one (expires 180 days after install), and a 3 Day offsite University (expires 365 days after install) All offsite training includes travel, see travel disclaimer\*\*

\*If purchased with Live 3D/4D, offsite advanced customer training tuitions must be used consecutively.

\*\*TRAVEL Disclaimer: Travel & Accommodations for registered attendees. Each tuition 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 the course duration. 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. Note: 21 day Cancellation/Rescheduling policy is strictly enforced.

\*\*\*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 Tuitions must be registered prior to the expiration date. The course chosen must be taken within 90 days of expiration.*

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| <b>2</b> | <b>L12-5 &amp; L15-7io Package</b>  | <b>1</b> |
|          | <b>L12-5 50mm Transducer</b><br>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.                       |          |
|          | <b>L15-7io Transducer</b><br>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. Also validated for musculoskeletal applications. |          |
| <b>3</b> | <b>PureWave Bundle, C5-1 &amp; C10-3v</b>   | <b>1</b> |
|          | <b>C5-1 Transducer</b><br>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.            |          |
|          | <b>C10-3V Transducer</b><br>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.  |          |
| <b>4</b> | <b>Radiology Pkg</b>  | <b>1</b> |

Includes the following:

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

5	<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.	
6	<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.	
7	<b>English Manual</b>	1
	Operation Manual	
8	<b>1st SVC Manual for Gov</b>	1
9	<b>US2787 Bio IU22_IE33 CTC 4</b>	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:**

- . 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