

## 100600 iU22 Ultrasound System

**System Type:** New  
**Freight Terms:** FOB Destination  
**Warranty Terms:** Part numbers beginning with two (2) asterisks (\*\*) are covered by a Per Contract. All other part numbers are third (3rd) party items.  
**Special Notations:** Contingencies must be removed 120 days before scheduled shipment to assure delivery on specified date.  
 Any rigging costs are the responsibility of the Purchaser.  
**Additional Terms:**

Line #	Part #	Description	Qty
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1	<b>**NNAP010</b>	<b>iU22 Vision 2011 xMATRIX</b>	<b>1</b>
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### 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

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 442,176 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  
 iOPTIMIZE intelligent optimization technologies for one-button approach to instantly adapt

## 100600 iU22 Ultrasound System

Line #	Part #	Description	Qty
		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	
		<b>Data</b> 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	
		<b>Other Core Features</b> 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	
		<b>Live 3D</b> Provides Live 3D software and Live xPlane software for use with xMATRIX transducers. (xMATRIX transducers are not included and must be purchased separately).	
2	**NNAP084	Efficiency Pkg.	1
		<b>Efficiency Package</b> The iU22 Efficiency Package offers a unique combination of features designed to improve workflow and productivity. The package includes Netlink DICOM 3.0, Panoramic, SmartExam, and iCommand options.	
		<b>Netlink DICOM 3.0</b> 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.	
		<b>Panoramic</b> Real-time extended field-of-view composite imaging acquired in fundamental or SonoCT mode.	
		<b>SmartExam</b> SmartExam system-guided protocols with new features that include exam record and automatic mode switching to greatly improve workflow efficiencies	
		<b>iCommand Intelligent Voice Control and Headset</b> Exclusive Philips voice recognition engine, allowing 'hands free' system control during difficult scanning examinations. Includes one headset.	

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3	<b>**NUSD336</b>	<b>Radiology Pkg</b>	<b>1</b>
		Includes the following:	
		<ul style="list-style-type: none"> <li>• Abdominal Clinical Option</li> <li>• Gynecology Clinical Option</li> <li>• Vascular Clinical Option</li> <li>• Pediatric Clinical Option</li> <li>• Small Parts Clinical Option</li> <li>• Musculoskeletal Clinical Option</li> <li>• Obstetrical Clinical Option</li> <li>• Contrast Clinical Option</li> <li>• Urology Clinical Option</li> <li>• TCD Clinical Option</li> <li>• Interventional Clinical Option</li> <li>• Tissue Dopple Imaging (TDI)</li> </ul>	
4	<b>**NUSB161</b>	<b>3D/4D Abdominal Package</b>	<b>1</b>
		Includes 4D capability and one V6-2 Trans-Abdominal Broadband Curved Array transducer. Quantative 3D/4D volume acquisition with SonoCT supported. Ability to acquire and display up to 30 volumes/second. Includes advanced MPR display capability	
5	<b>**NUSB824</b>	<b>3DQ GI</b>	<b>1</b>
		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); allows for display of thick slice data and Slice Plane view of the three MPR views. Also provides MPR rotation, basic crosshair control, rotation and movement; crosshair and MPR border graphics controls, pan and zoom controls, user-selected motion compensation algorithm and export of BMP, JPEG, TIFF and AVI files; Rotation speed control, Elevation resize for freehand volumes, Linear Measurements, Ellipse Measurements, Stacked Contour Measurements and display in wire mesh and surface render modes, Region of Interest (ROI) Analysis and color indices calculation; Works with Matrix and Mechanical Volume Transducers.	
6	<b>**NUSB859</b>	<b>Elastography Opt Incl. functionality</b>	<b>1</b>
		Features new Strain based Elastography for Breast Imaging. Available on Advanced Breast TSI on L12-5 transducer.	
		<ul style="list-style-type: none"> <li>• Available in Advanced Breast TSI on L12-5 transducer</li> <li>• One touch entry into elastography mode</li> <li>• Elastogram applied as a region of interest box with user control of size and location through entire field of view</li> <li>• Realtime indicator for elastogram quality</li> <li>• Display options <ul style="list-style-type: none"> <li>• Single screen 2D with elastogram</li> <li>• Side-by-side display of 2D image and 2D with elastogram</li> </ul> </li> <li>• Shadow duplication and measurement capability in side-by-side display <ul style="list-style-type: none"> <li>• Distance and area tools</li> <li>• Duplication from either side of the display</li> </ul> </li> <li>• Six selectable elastogram display maps</li> </ul>	

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		<ul style="list-style-type: none"> <li>• Ability to hide / show the elastogram display</li> <li>• Blend capability to increase 2D visibility through elastogram display</li> <li>• Acquisition rate control for elastogram optimization</li> <li>• Four smoothing selections</li> <li>• Five persistence selections</li> <li>• Two dynamic resolution system (DRS) selections to optimize between elastogram resolution and penetration</li> <li>• Four dynamic range selections for elastogram display</li> <li>• Three elastogram optimization settings to optimize to different tissue compositions</li> <li>• Anechoic Imaging feature</li> </ul>	
7	<b>**NUSA409</b>	<b>X6-1 / C5-1 Transducer Bundle</b>	<b>1</b>
		<b>X6-1 Purewave xMatrix Transducer:</b> 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.	
		<b>C5-1 Purewave Broadband Curved Array Transducer:</b> PureWave curved array transducer with 5 to 1 MHz extended operating frequency range for high performance OB/GYN, Abdominal and Interventional applications. This transducer provides exceptional clinical performance for a wide range of patient types including obese and technically challenging patients.	
8	<b>**FUS7251</b>	<b>3D9-3v Broadband Curved Array transducer</b>	<b>2</b>
		Curved array transducer with 9 to 3 MHz extended operating frequency range and 130-degree field of view, supporting high resolution 2D imaging; high resolution quantitative, single sweep 3D volume acquisition; and 4D imaging up to 22 volumes per second for endovaginal obstetrical and gynecological applications.	
9	<b>**FUS7271</b>	<b>L9-3 Broadband Linear Array transducer</b>	<b>1</b>
		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.	
10	<b>**FUS7272</b>	<b>L12-5 50mm Broadband Linear Array transducer</b>	<b>1</b>
		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.	
11	<b>**FUS7275</b>	<b>L15-7io Intraoperative Broadband Linear Array</b>	<b>1</b>
		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	

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Line #	Part #	Description	Qty
12	<b>**FUS7286</b>	<b>C10-3v Purewave Broadband Transducers</b>	<b>2</b>
		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.	
13	<b>**FUS7000</b>	<b>English Manual</b>	<b>1</b>
		Operation Manual	
14	<b>**FNA8175</b>	<b>3 Day ENT 3DU w/Travel</b>	<b>1</b>
		<b>3 Day Entitlement 3D University with Travel</b> - 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.	
15	<b>**FNA8173</b>	<b>2 Day ENT ACT w/Travel</b>	<b>1</b>
		<b>2 Day Entitlement ACT with Travel</b> - 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.	
16	<b>**FNA8170</b>	<b>1 Day PAS Onsite</b>	<b>2</b>

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Line #	Part #	Description	Qty
		<b>1 Day PAS Onsite</b> - 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).	
17	<b>**FNA8204</b>	<b>1st SVC Manual for Gov</b>	<b>1</b>
18	<b>**989801299679</b>	<b>Food Transpt Lodging for Cleveland Biomed Training</b>	<b>4</b>
		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.	
19	<b>**989801299720</b>	<b>US2787 Bio IU22_IE33 CTC 4</b>	<b>1</b>
		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	
		<b>DESCRIPTION:</b> 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.	
		<b>COURSE-WARE:</b> Student Manual All course materials are on CSIP level 1.	
		<b>PREREQUISITES:</b>	

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- . 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

20	SP019	Trade in Allowance	1
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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: ACUSON CORPORATION SEQUOIA C512 FLAT PANEL  
Serial Number: 53633  
Manufacturer: ACUSON CORPORATION

### \*\*\*\*\*PROMOTIONS\*\*\*\*\*

Promotion Name	Description
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GOV No Demo Promotion US	If no Demonstration performed, an additional % allowed on the sale.
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