

648-B31005 XR Ultrasound Updated Salient Features (01-28-14)

- Tablet like interface resulting in reduction of exam reach and exam steps.
- Light weight.
- 19" high definition LCD display
- Articulation of control panel and monitor to allow for ergonomic alignment whether sitting or standing
- Quiet operation 60 Db or better.
- 4 transducer ports
- Integrated footrest
- Integrated storage shelves
- 4 wheel swivel and swivel/brake lock control
- Up to 7,071,744 total digital channels (xMATRIX configuration)
- Up to 4,718,592 total digital channels (non xMATRIX configuration)
- Exclusive adaptive signal to noise ratio that achieves system dynamic range of up to 192 dB for improved 2D
- Minimum of quad core processing computer with 4 GByte graphics display
- Real-Time Compounding, with Widescreen capability and up to 9 beam-steered lines of sight that acquires more information and reduces angle generated artifacts
- Adaptive Image Processing for noise and artifact reduction to improve tissue and border definition
- Fully independent, multiple mode Triplex operation
- Low-loss technology for better penetration with fewer artifacts
- Supports array configurations up to 20 MHz – sector, linear, curved, tightly curved, TEE and volume transducers (mechanical and xMATRIX)

Automation

- Autoscan (real time iSCAN) automatically optimizes gain and TCG continuously to assure you are achieving an optimal image in 2D, 3D and 4D.
- System-guided protocols with new features that include exam record and automatic mode switching to greatly improve workflow efficiencies
- Vascular Auto Doppler flow optimization, automatic adjust sample volume placement and angle. Also includes Auto Flow Tracking for automatic angle correction with sample volume movements
- Vascular High-Q Automatic
- Intelligent Tissue Specific Imaging
- Multi Modality Query Retrieve (Allows for the viewing of DICOM CT, Mammography, NM, MRI and ultrasound images – you can review these images while you are live imaging)
- NetLink/DICOM 3.0 provides network print and store, commit, modality worklist, DICOM Query and Retrieve, and structured reporting for adult and pediatric echo, vascular, and OB/GYN

- DICOM 3.0 Print and Store capability to internal drive or DVD/CD
- Integrated Wireless DICOM with WEP security
- 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
- Ability to send X,Y & Z volume MPR's to most PACS
- Ability to export QLAB native data

Other Core Features

- 2D Panoramic
- Color Power Angio
- Tissue Harmonics and Pulse Inversion Harmonic Imaging
- Basic 3D Imaging capability with MPR visualization feature
- 2D, M-Mode, Anatomic M-mode, Color Flow Doppler, Pulsed Wave Doppler (PW), High PRF PW, Continuous Wave Doppler
- 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
- Tissue Doppler Imaging
- LVO contrast
- Stress Echo Protocol

Transducers

- Curved array transducer with 5 to 1 MHz extended operating frequency range.
- C5-1 Curved Array for high performance OB/GYN, Abdominal and Interventional applications.
- C10-3v Transducer Compact, Curved array transducer with 3 to 10 MHz operating frequency range, end fire sector, 11.5 radius of curvature, 130 degree field of view for endovaginal applications.
- X6-1 Transducer Compact, xMATRIX transducer with 6-1 MHz extended operating frequencies for abdominal and OB applications. High density array of over 9200 fully sampled elements allows 2D, xPlane and Live volume images.
- L12-3 Transducer, Linear array transducer with 12 to 3 MHz extended operating frequency range for vascular. Can also be used for musculoskeletal, pediatric radiology, small parts applications.

- L18-5 Transducer Compact, Ultra-fine pitch, 288 element, high resolution linear array transducer with 18 to 5 MHz extended operating frequency range for high resolution superficial applications, including small parts, breast, superficial vascular and musculoskeletal imaging.

Biomedical Service School: Tuition. Travel lodging, and per diem if possible.

Radiology Clinical Package

Includes the following:

- Abdominal Clinical Option
- Gynecology Clinical Option
- Vascular Clinical Option
- Pediatric Clinical Option
- Pediatric Echocardiography Option
- Small Parts Clinical Option
- Musculoskeletal Clinical Option
- Obstetrical Clinical Option
- Fetal Echocardiography Option
- Urology Clinical Option
- TCD Clinical Option
- Interventional Clinical Option

4 **FUS8351 X6-1 Transducer Compact 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.

5 **FUS8370 L12-3 Transducer 1

Linear array transducer with 12 to 3 MHz extended operating frequency range for vascular. Can also be used for musculoskeletal, pediatric radiology, small parts applications.

6 **FUS8373 L18-5 Transducer Compact 1

Ultra-fine pitch, 288 element, high resolution linear array transducer with 18 to 5 MHz extended operating frequency range for high resolution superficial applications, including small parts, breast, superficial vascular and musculoskeletal imaging.

Elastography Point

Quantification

7 **NUSV220 1

Shear Wave point quantification elastography utilizes the C5-1 transducer to conduct a virtual biopsy. At the touch of a button clinicians can acquire absolute liver stiffness data using a unique series of ultrasound pulses. This data helps clinicians assess early fibrotic changes, including much more information than can be obtained in a single tissue sample. Shear Wave ultrasound elastography offers the opportunity to avoid the complications of a biopsy and assess liver status non-invasively in combination with simple blood work.

8 **FUS7000 English Manual 1

Operation Manual

9 **NUSV234 Internal B&W Printer 1

Internally mounted and remote controlled, medical grade high resolution black and white thermal printer for image documentation.

****NNAP356 xMATRIX xPlane and Live 3D 1**

xMATRIX xPlane and Live 3D

Provides a combination of functionality when using xMATRIX transducers in both 2D and Live 3D modes.

iRotate: ability to electronically rotate the 2D imaging plane without rotating the transducer. iRotate can be used in 2D and color flow. Can also be incorporated into 2D Stress Echo protocols to minimize acquisition times and improve reproducibility of images at different stages (X5-1 and X7-2t only).

Live xPLANE: ability to image and acquire 2 orthogonal 2D images. The orthogonal plane can be tilted in the lateral or elevation plane as well as be rotated. Works in 2D and in color flow (all xMATRIX transducers).

Live 3D: ability to perform real time Live 3D (dynamic 3D) allowing assessment of structures and its relationship within the anatomy, in greyscale and color Doppler. Zoom functionality optimized for detailed Live 3D imaging of specific anatomic structures. (all xMATRIX transducers). Live 3D

Full Volumes: ability to capture a large volume in Live 3D. Designed to encompass the entire heart. Can be performed in greyscale or with color Doppler. Multiple acquisition modes available, from 1 to 6 beats cardiac cycles.(X5-1 and X7-2t only).

Clinical Education

If you are purchasing Live 3D with a New System you will receive; *1 Day Offsite Advanced customer training course for one (expires 180 days after install), a 3 Day Offsite University (expires 275 days after install), A Post University Integration Onsite class (expires 365 days after install), and one subscription to E-Echocardiography.com (must be activated within 90 days of

code notification). All offsite training includes travel, see travel disclaimer**

If you are purchasing Live 3D as an upgrade you will receive; ***1 day 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 purchased with 2D Quantification Bundle, offsite advanced customer training tuition must be use 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