

**Functional Requirements for Radiology Ultrasound
For Minneapolis VA Healthcare System (Station 618)
Obligation Number 618-B49040**

This ultrasound will be used for the following clinical applications: General-purpose, abdominal, small parts, guidance for interventional procedures, and vascular.

Technical Requirements:

1. Capable of processing multiple data stream simultaneously built for 2D, 3D and MPR
2. All imaging modes available on a single transducer
 - a. 2D
 - b. 3D (freehand and automatic)
 - c. Navigation Software
 - d. Image Fusion Software
 - e. Elastography Software
 - f. Harmonic Imaging
3. Doppler Displays
 - a. Frequency
 - b. Velocity
 - c. Power
 - d. Duplex
 - e. Triplex
4. Digital Calipers
5. Selectable dynamic range
6. Adjustable transmit focus
7. Dynamic receive focus
8. Pan/Zoom
9. Minimum monitor 20 inches
10. Split screen
11. Image Storage
12. One-button image optimization
13. One button equalization of Doppler
14. Programmable protocols
15. 3 active transducer ports
16. Bi-Directional scanning capability

Transducers/ Probe Types

1. Linear array high frequency range
2. Linear array lower frequency range
3. Convex/curved for abdominal & interventional
4. Phased Array
5. Multi-frequency
6. Endo cavity
7. Navigation/Fusion Biopsy Guide

Each vendor is to respond with transducers that meet the criteria listed above. Please include all other transducers offered by your company in the optional section on the quotes.

Analysis Packages:

1. Abdominal
2. Urology
3. Vascular – measurement and analysis of vessels

Support and other Documentation to Provide:

1. Provide DICOM Conformance Statement
2. Provide completed Pre-procurement Assessment form (6550) and MDS² document
3. Provide information about your companies support structure during the warranty period (i.e. a listing of Field Service Engineer locations and availability, support 800 phone number(s), remote support, etc.). Warranty Period shall be a minimum of 1 year – part and labor. Contractor shall provide a hard copy of the warranty with the product.
4. Please provide version/platform long-range plan
5. Provide 2 Copies Product Service Manuals (1 Hard Copy and 1 Digital Copy)

Training

1. On-site
 - a. Clinical applications **during GO LIVE** - minimum of 4 days (8 hrs each day)
 - b. Training should include both Technologists and Physicians
 - c. 1 day of the training should be dedicated to training on fusion and navigation
2. Follow up
 - a. Applications training to be provided after technologists have hands-on experience with the system - between **3-4 months** following GO LIVE - minimum of 2 days (8 hrs each day)– for each site.
 - b. Applications training to be provided after technologists have hands-on experience with the system – between **6-9 months** after GO LIVE - - minimum of 2 days (8 hrs each day)– for each site.
3. One Biomedical Technical training – tuition and travel

Trade-in: NONE