

**Functional Requirements for Radiology Ultrasound  
For Iowa City VA Healthcare System (Station 636A8)  
Obligation Number 618-B49027**

*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. 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 MDS<sup>2</sup> 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