

**Functional Requirements for a Vascular Ultrasound
For Nebraska-Western Iowa VA Healthcare System (Station 636)
Obligation Number 636-B70136**

This vascular ultrasound equipment will be used at the Omaha Veterans Affairs Medical Center (VAMC) for outpatient surgery clinic.

Technical Requirements:

1. Capable of processing multiple data stream simultaneously built for 2D, 3D, MPR
2. Imaging modes
 - a. 2D
 - b. M-mode
 - c. Anatomical M-mode
 - d. Harmonic imaging
3. Doppler Display
 - a. Frequency
 - b. Velocity
 - c. Power
4. Dynamic range must exceed 150 dB
5. Prospective capture
6. Retrospective capture
7. Pan/Zoom
8. Split screen
9. Image storage on acquisition unit
10. Image auto-optimization based on gain and contrast
11. Wireless capable
12. Programmable protocols
13. DICOM 3.0 structured reporting, print and store
14. Imaging system must not exceed 20 pounds
15. System must be mobile (separate cart is allowable)
 - a. Ultrasound system, excluding cart, should not exceed 20 pounds
 - b. If using separate cart for storage, its wheels must be lockable
 - c. Entire setup must be able to hold 3 transducers

Transducers/Probe Types:

1. The following transducers must be included with the system:
 - a. 15-4 MHz linear transducer
 - b. 5-2 MHz curved transducer

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

Analysis Packages:

1. Vascular

Support and other Documentation to Provide:

1. Provide the weight of the unit
2. Provide the physical size (height, width and depth)
3. Provide DICOM Conformance Statement
4. Provide completed 6550 pre-procurement Assessment Document
5. Provide information about your company's support structure during the warranty period (i.e. a listing of Field Service Engineer locations and availability, support 800 phone numbers, remote support, etc.)
6. Please provide version/platform long-range plan
7. References for sites that have successfully interfaced with different vendor Cardiac PACS systems
8. Provide 2 copies of product service manuals (1 hard copy and 1 digital copy)

Training

1. On-site
 - a. Clinical applications **during GO LIVE** - minimum of one day (8 hrs).
 - b. Training should include both Technologists and Physicians
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 one day (8 hrs).
 - b. Applications training to be provided after technologists have hands-on experience with the system – between **6-9 months** after GO LIVE - - minimum of one day (8 hrs).
3. One Biomedical Technical training per unit – tuition and travel (including rental cars, lodging and food costs)

Trade-in - None