

**Functional Requirements for Cardiac Ultrasound
For Iowa City VA Healthcare System (Station 636A8)
Obligation Number 636-B44084**

This cardiac ultrasound equipment will be used at a Medical Center for inpatient and outpatient clinics.

Technical Requirements:

1. Capable of processing multiple data stream simultaneously built for 2D, 3D, MPR
2. All image modes available on a single transducer
 - a. 2D
 - b. 3D
 - c. M-mode
 - d. Harmonic image
3. Doppler Display
 - a. Frequency
 - b. Velocity
 - c. Power
4. Digital calipers
5. Selectable dynamic range
6. Adjustable transmit focus
7. Dynamic receive focus
8. Pan/Zoom
9. Split screen
10. Image storage
11. Image optimization
12. Equalization of Doppler
13. Programmable protocols
14. 3 active transducer ports
15. Tissue tracking/velocity
16. Anatomical-M PW/HPRF
17. Quantitative Applications
18. Printer hookup port
19. Interface capabilities to any vendor Cardiac PACS system (provide references)

Transducers/Probe Types:

1. Cardiac Phased Array
2. Cardiac non-imaging probe
3. TEE transesophageal probe
 - a. 2D and 3D Dynamic elevational focusing
 - b. 7 to 2 MHz extended operating frequency range
 - c. 3D zoom
 - d. Electrocautery suppression
 - e. Electronic rotatable array from 0-180 degrees

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. Cardiac
2. Contrast
3. Card Coronary
4. Pediatrics

Support and other Documentation to Provide:

1. Provide DICOM Conformance Statement
2. Provide completed pre-procurement Assessment and MDS2 Document
3. 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.)
4. Please provide version/platform long-range plan
5. References for sites that have successfully interfaced with different vendor Cardiac PACS systems

Training

1. On-site
 - a. Clinical applications **during GO LIVE** - minimum of 4 days (8 hrs each day) – for each site.
 - 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 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:

Option 1 **ALL Hard Drives will be retained by the VA.**

Ultrasound:

EE: 2998118
Manufacturer: Philips
Model: IE33
S/N: 03B57W
Acq. Year: June 2010

TEE Probe:

EE: 2998431
Manufacturer: Philips
Model: X7-2T
S/N: 03G9GK
Acq. Year: June 2010