

## Functional Requirements for **Radiology Ultrasound**

### **System Requirements:**

1. Capable of processing multiple data stream simultaneously built for 2D, 3D, MPR
2. All imaging modes available on a single transducer
  - 2.1. 2D
  - 2.2. 3D (freehand and automatic)
  - 2.3. Harmonic Imaging
3. Doppler Displays
  - 3.1. Frequency
  - 3.2. Velocity
  - 3.3. Power
  - 3.4. Duplex
  - 3.5. 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

### **Transducers/ Probe Types**

1. Linear Array
2. Convex/curved Array
3. Phased Array
4. Multi-frequency
5. Endocavity
6. X-plane

### **Analysis Packages:**

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

4. OB/GYN – measurement and analysis of fetal structures

**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.)
4. Please provide version/platform long-range plan
5. Two complete sets of the operator and maintenance manuals
  - 5.1. One set of each must be hardcopy and the other set must be on a DVD/CD

**Training**

1. On-site applications during GO LIVE – minimum 32 hour
2. Follow up equipment/applications training to be provided after technologists have hands-on experience with the system – minimum 16 hours
3. One Biomed technician training (tuition, lodging, and travel).

**Optional Training Items**

1. All prerequisite courses are including in the training costs.

**Trade In**

1. None