Functional Requirements for Cardiology Ultrasound
For Minneapolis VA Healthcare System (Station 618)
Requisition Number 618-B69051   TRADE IN

This Cardiology ultrasound will be used for the following clinical applications: General purpose, Echocardiograms, TEE procedures, and vascular.

Technical Requirements:

1) Capable of processing multiple data streams simultaneously
2) All imaging modes available on a single transducer
    a) 2D
    b) 3D
    c) M-Mode
    d) Harmonic Imaging
3) Doppler Displays
    a) Pulsed Wave
    b) Velocity
    c) Power - Microvascular/directorial
    d) Duplex
    e) Triplex
4) Minimum monitor – minimum 21 inches
5) Touchscreen
6) keyboard on touchscreen
7) Image storage – minimum 3 days
8) One button image optimization
9) One button optimization of Doppler
10) Programmable protocols
11) Four (4) active transducer ports
12) Operating system – Windows 7 or above
13) Receive ECG information via leads connected to patients
14) DICOM 3.0 print, store, commit, and modality worklist
15) Beam Steering
16) Printer
17) Ease of maneuverability
    a) Screen rotation
    b) Unit moves up and down both monitor and the control panel
    c) Size of equipment
    d) Weight of unit
    e) Rotation of desktop/control panel
18) Encrypted hard drive
19) Live 3D quantification tool that calculates the volumes of the LV and LA simultaneously, as well as an LV EF and Stroke Volume in less than 30 seconds
20) Ability to image the microbubbles found within the myocardium when using contrast agents to assess LV microvasculature
21) Compatible with Philips X7-2t compact Transesophageal transducer *(if the vendor solution is not compatible, please quote a TEE transducer)*
22) Integration to the Philips Allura X-ray system including fusion image software
23) Ability to enter a standby mode or sleep mode
24) Compatible with Syngo Dynamics PACS and the ability to acquire secondary capture for 2D/3D images

Transducer/Probes Requested

1) Cardiac 5-1 MHz
2) PW/CW Doppler 2 MHz

3) Linear 12-3 MHz

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

Analysis Packages:
1) Procedural
2) Cardiovascular Clinical
3) Automatic Cardiac Motion Quantification
4) Cardiac 3D Quantification
5) Vascular – measurement and analysis of vessels
6) Contrast Card Perfusion
7) Interventional Cardiology

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

Support and other Documentation to Provide:
1) Please provide the weight of the unit.
2) Please provide the physical size (Height, Width, and Depth).
3) Provide DICOM conformance statement.
4) Provide completed pre-procurement assessment form (6550).
5) Provide information about your companies support structure during the warranty period (i.e. a listing of field service engineer locations and availability, support 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.
6) Please provide version/platform long-range plan.
7) 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 2 days (8 hours each day).
   b) Training should be for 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 for a minimum of 2 days (8 hours each day).
3) Off-site
   a) Technologists – off-site training – for 2 technologists or physicians.
   b) Tuition and travel (including, but not limited to travel to and from airport, airfare or fuel, lodging, per diem, rental vehicle and incidentals) is preferred.
   c) This training should be scheduled and completed after the system has been installed.

Trade-in:
EE Number: 111377
Manufacturer: Philips
Model: IE33
SN: B0YLNR
Acquisition Date: May 2014