

Equipment Specifications

Ultrasound

Manchester VA Medical Center

[608-B83003]

A. REQUIREMENT OVERVIEW

The Manchester VA Medical Center is requesting one Cardiac ECHO ultrasound unit for the Cardiology department. The ultrasound will be used for Stress ECHO studies and will be connected to our GE Healthcare Case V 6.5 Cardiac Stress Evaluation System.

Facility	Quantity
Manchester VAMC	1

B. TECHNICAL REQUIREMENTS

1. Unit physical specifications

a. Minimum screen size [in]	21.5
b. Minimum number of split screens	2
c. Minimum monitor rotation [degrees]	720
d. Minimum control panel rotation [degrees]	180
e. Minimum number of transducer ports	4
f. Minimum image storage [days or TB]	1
g. Maximum equipment dimensions (HxWxD) [in]	67.5 x 23.9 x 43
h. Maximum equipment weight [lb]	230

2. Scanning modes

<input checked="" type="checkbox"/>	a. Two-dimensional (2D)
<input checked="" type="checkbox"/>	b. Three-dimensional (3D) – freehand
<input checked="" type="checkbox"/>	c. Tissue Harmonic Imaging
<input checked="" type="checkbox"/>	d. M-Mode
<input checked="" type="checkbox"/>	e. Simultaneous M-Mode
<input checked="" type="checkbox"/>	f. Pulsed Wave Doppler
<input checked="" type="checkbox"/>	g. Continuous Wave Doppler
<input checked="" type="checkbox"/>	h. Velocity Color Doppler
<input checked="" type="checkbox"/>	i. Color Power Doppler
<input checked="" type="checkbox"/>	j. Tissue Doppler Imaging
<input checked="" type="checkbox"/>	k. Pulsed Wave Doppler



3. Doppler displays

<input checked="" type="checkbox"/>	a. Frequency
<input checked="" type="checkbox"/>	b. Velocity
<input checked="" type="checkbox"/>	c. Power (microvascular/directional)
<input checked="" type="checkbox"/>	d. Duplex
<input checked="" type="checkbox"/>	e. Triplex
<input checked="" type="checkbox"/>	f. Steering for color Doppler is required to be 3° increments or less

4. Control panel specifications

<input checked="" type="checkbox"/>	a. Physical keyboard
<input checked="" type="checkbox"/>	b. Touchscreen monitor
<input checked="" type="checkbox"/>	c. Keyboard on touchscreen
<input checked="" type="checkbox"/>	d. Black-and-white printer
<input checked="" type="checkbox"/>	e. Articulating support arm to allow for vertical and horizontal adjustment of the monitors for viewing from anywhere in the room

5. Additional specifications

<input checked="" type="checkbox"/>	a. Sync cable for Case V 6.5 Stress Evaluation System
<input checked="" type="checkbox"/>	b. Image annotation
<input checked="" type="checkbox"/>	c. One-button image optimization
<input checked="" type="checkbox"/>	d. One-button Doppler optimization
<input checked="" type="checkbox"/>	e. Programmable protocols
<input checked="" type="checkbox"/>	f. Built-in, customizable PACS-compatible form
<input checked="" type="checkbox"/>	g. Specific applications and workflows for all imaging specialties, including interventional guidance
<input checked="" type="checkbox"/>	h. Shear wave and strain-based elastography
<input checked="" type="checkbox"/>	i. Beam steering
<input checked="" type="checkbox"/>	j. Ability to enter standby mode or sleep mode
<input checked="" type="checkbox"/>	k. Multi-function foot pedal control (programmable preferred)
<input checked="" type="checkbox"/>	l. Image editing – easy video editing and annotation
<input checked="" type="checkbox"/>	m. Digital calipers
<input checked="" type="checkbox"/>	n. Ability to receive ECG information via leads connected to patients

6. Security/Connectivity requirements

<input checked="" type="checkbox"/>	a. OEM-supported operating system
<input checked="" type="checkbox"/>	b. DICOM 3.0 print, store, commit, and modality worklist
<input checked="" type="checkbox"/>	c. HL7 integration (HIS/RIS)
<input checked="" type="checkbox"/>	d. Encrypted hard drive



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|-------------------------------------|---|
| <input checked="" type="checkbox"/> | e. PACS compatibility – [Philips Xcelera] |
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7. Analysis packages

<input checked="" type="checkbox"/>	a. Vascular – measurement and analysis of vessels
<input checked="" type="checkbox"/>	b. Stress ECHO Review
<input checked="" type="checkbox"/>	c. Cardiovascular Clinical
<input checked="" type="checkbox"/>	d. Mitral Valve Navigator
<input checked="" type="checkbox"/>	e. Cardiac 3D Quantification

Vendors must include in their offers analysis packages that meet the criteria above. Please include all other analysis packages offered by your company in the optional section on the quotes.

8. Transducers

Description	Qty	Frequency Range [MHz]
a. Abdominal vascular, adult echo, TCD	1	1 to 5
b. High frequency sector array transesophageal transducer with 2D and 3D	1	8 to 2
c. Nonimaging Pulse Wave/Continuous Wave Doppler transducer for cardiac applications	1	2

Vendors must include in their offers transducers that meet the criteria above. Please include all other transducers offered by your company in the optional section on the quotes.

C. TRAINING REQUIREMENTS

Description	No. of Personnel
1. Clinical applications training during go-live for technologists and physicians	1
2. Biomedical technical training package (to include tuition)	1

Biomedical technician training shall include any prerequisites required prior to the training and shall be equivalent to the training received by OEM field service representatives. Technicians shall be given all service manuals, schematics, diagrams, diagnostic software, other special tools, and keys equivalent to what OEM field service representatives have available to diagnose, troubleshoot, repair, and maintain the equipment.

Technologists who complete the clinical applications training shall receive continuing education credits (CMEs).

Off-site training will not be purchased at the time of award. Vendors must demonstrate that they can provide any required off-site training listed above, therefore off-site training should be quoted as an optional item. Travel for



VA employees is not authorized under the HTME contracts. In no case should any training include expenses for travel or travel for VA personnel at no cost.

D. SERVICE REQUIREMENTS

1. VPN/Remote Access – The vendor shall provide, at no additional cost, any and all equipment service programs, such as remote diagnostics, during the warranty period. The vendor shall provide post-warranty remote diagnostic service program as an “Add Option” with the offer. The system shall provide vendor remote diagnostics via VPN. The vendor shall either utilize the VA national site-to-site VPN or work with the Office of Cyber and Information Security and the VAMC Information Systems Security Officer to establish a client-based VPN.
2. Service and Operator Manuals – The vendor shall provide the following documentation for the proposed systems:
 - a. Two (2) copies of operator instruction manuals (one (1) electronic and one (1) physical copy)
 - b. Two (2) copies of complete technical service manuals including detailed troubleshooting guides, necessary diagnostic software, service keys, schematic diagrams, and parts lists (one (1) electronic and one (1) physical copy)
3. Minimum Warranty – The system and accessories shall be covered under the manufacturer’s warranty and shall include all parts and labor for one year following acceptance by the VAMC. This warranty must include PMs as required by the manufacturer. The manufacturer’s factory-trained field service representatives shall perform installation and maintenance during the warranty period.

Vendors are encouraged to include any offerings for service, warranty, and training that may exceed the requirements with their proposals. Vendors who do not include any added value offerings for service, warranty, and training will not be docked or excluded from consideration. However, any such offerings will be evaluated based on added value.

E. OTHER INFORMATION/DOCUMENTATION REQUESTED

1. Product brochures
2. Technical specification sheets, to include dimensions and weight of the system
3. Description of the standby mode or sleep mode with boot-up time in seconds/minutes
4. DICOM Conformance Statement
5. IHE integration statement
6. FIPS 140-2 certification
7. Completed pre-procurement assessment form (6550)
8. Completed MDS2 form
9. Detailed information about the curriculum and length of the biomedical technical training
10. Details on any off-site training offered for technologists
11. Information about your company’s support structure during the warranty period
 - a. Describe on-line or telephonic applications support and availability
 - b. Provide a listing of field service engineer locations and availability
 - c. Provide a listing of part depots
12. Information about your company’s support options following the warranty period, including a description of on-line or telephonic applications support and availability
13. Version/platform long-range plan
14. Two (2) copies of the product service manual (1 hard copy and 1 digital copy)



15. Information on any FDA safety recalls associated with the proposed equipment

F. TRADE-IN

<input type="checkbox"/>	a. In instances where sanitization of ePHI compromises the OS and/or application software, or requires the removal of internal storage media, the vendor accepts the equipment “as is” and can elect at their own discretion to contract with the original equipment manufacturer (OEM) to restore the system.
<input type="checkbox"/>	b. In instances where sanitization of ePHI compromises the OS and/or application software, the operating system and application software will be reloaded by VA or a vendor contracted by VA on the native system post drive sanitization. Verification of system operation is the responsibility of the vendor.
<input checked="" type="checkbox"/>	c. VA has no trade-in units to offer.

