Equipment Specifications
Ultrasound
VISN 21/VA Palo Alto HCS
640-B94015, 640-B94016

A. REQUIREMENT OVERVIEW

The VA Palo Alto Health Care System seeks to replace 2 ten year-old Philips iE33 cardiac ultrasound scanners with full-featured, state of the art cardiac ultrasounds for use in interventional procedures and exams, including ones requiring trans-esophageal echocardiography.

Facility	Quantity
VAPAHCS	2

B. TECHNICAL REQUIREMENTS

1.   Unit physical specifications

a.	Minimum screen size [in]	21
b.	Minimum active screen size [in]	21
c.	Minimum number of split screens	2 (dual mode)
d.	Minimum monitor rotation [degrees]	370 degrees
e.	Minimum tilting [degrees]	60
f.	Monitor height range from floor [in]	48" – 72"
g.	Minimum control panel rotation [degrees]	180
h.	Control panel height range from floor [in]	36" – 48"
i.	Minimum number of transducer ports	4
j.	Minimum image storage [days or TB]	1TB
k.	Minimum battery life [min]	30
l.	Maximum equipment dimensions (HxWxD) [in]	72" x 26" x 44"
m.	Maximum equipment weight [lb]	230

2.   Scanning modes

☒	a.	Two-dimensional (2D)
☒	b.	Three-dimensional (3D) – freehand
☒	c.	Navigation Software
☒	d.	Image Fusion Software
☒	e.	Tissue Harmonic Imaging
☒	f.	M-Mode

☒	g.	Simultaneous M-Mode
☒	h.	Pulsed Wave Doppler
☒	i.	Continuous Wave Doppler
☒	j.	Velocity Color Doppler
☒	k.	Color Power Doppler
☒	l.	Tissue Doppler Imaging
☒	m.	Pulsed Wave Doppler

3.   Doppler displays

☒	a.	Frequency
☒	b.	Velocity
☒	c.	Power (microvascular/directorial)
☒	d.	Duplex
☒	e.	Triplex
☒	f.	Steering for color Doppler is required to be 3° increments or less

4.   Control panel specifications

☒	a.	Touchscreen monitor
☒	b.	Keyboard on touchscreen
☒	c.	Articulating support arm to allow for vertical and horizontal adjustment of the monitors for viewing from anywhere in the room

5.   Additional specifications

☒	a.	Panoramic mode
☒	b.	Multi-modality display
☒	c.	Image annotation
☒	d.	One-button image optimization
☒	e.	One-button Doppler optimization
☒	f.	Programmable protocols
☒	g.	Built-in, customizable PACS-compatible form
☒	h.	Specific applications and workflows for all imaging specialties, including interventional guidance
☒	i.	Beam steering
☒	j.	Ability to enter standby mode or sleep mode
☒	k.	Needle enhancement
☒	l.	Image editing – easy video editing and annotation
☒	m.	Phantom to be used for quality control testing
☒	n.	Digital calipers

☒	o. Ability to receive ECG information via leads connected to patients

6.　　Security/Connectivity requirements

☒	a. OEM-supported operating system
☒	b. Latest DICOM print, store, commit, and modality worklist
☒	c. Encrypted hard drive
☒	d. PACS compatibility – Philips Intellispace, Cerner

7.　　Analysis packages

☒	a. Vascular – measurement and analysis of vessels
☒	b. Cardiovascular Clinical
☒	c. Mitral Valve Navigator
☒	d. 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. X8-2t Transesophageal	2	8 MHz – 2 MHz
b. L15 – 7io Linear Array	1	15 MHz – 7 MHz

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.

9.　　Advanced features

☒	**Fusion-Targeted Biopsy System**
☒	a. Tracking and recording of needle movement during biopsy in 3D coordinates in real-time

10.　　Added Value

Specifications listed below are not required, but preferred. Vendors who do not include the below specifications in the submitted offer will not be docked or excluded from consideration. Specifications listed below will be evaluated based on added value.

☒	a. Additional year(s) of warranty
☒	b. Post-warranty remote diagnostic service program
☒	c. Version/platform long-range plan
☒	d. Live 3-D Echo

C. TRAINING REQUIREMENTS

1.   Clinical Training

☒	a. On-site clinical applications training for 2 technologists during go-live
☒	b. On-site follow-up clinical applications training for 2 technologists once technologists have hands-on experience with the system
☒	c. On-site clinical applications training for 4 physicians during go-live
☒	d. Vendors shall be responsible for accommodating different personnel shifts for clinical applications training during go-live.

2.   Biomedical Technician Training

Please reference the "Instructions to Offers" section 2.8.g for further information about the type of information to provide by equipment type not by specific request. Please also reference the "Instructions to Offers" section 7.3.3. for response format.

Technical training information to include detailed information about the curriculum and length of the biomedical technical training required for each equipment type.

Although the NAC will not award this training along with the equipment, it is imperative that the customer is informed that this training is available. Vendors must demonstrate that they can provide any required off-site training, therefore off-site training should be quoted as an optional item. Off-site training will be purchased at the time of need via a modification (if the original order remains open) or via a separate order. No travel expenses for any VA employees will be included in any HTME equipment or training order.

D. SERVICE REQUIREMENTS

1. VPN/Remote Access – The vendor shall provide 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 a service manuals (one (1) electronic and one (1) physical copy)
      *Vendors can include the physical copy as a priced line item in their quote as applicable.
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.

Veterans Health Administration
Healthcare Technology Management

Vendors are encouraged to include any offerings for service, warranty, and training that may exceed the minimum requirements, to include information on their service support structure during and after the warranty period. 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

Please reference the "Instructions to Offers" section 2.8a-h for further information about the type of information to provide by equipment type not by specific request. Please also reference the "Instructions to Offers" section 7.3.3. for response format.

1. Completed pre-procurement assessment form (6550 Appendix A)
2. Completed Manufacture Disclosure Statement for Medical Device Security (MDS2) form
3. Federal Information Processing Standard (FIPS) 140-2 certification
4. Product brochures
5. Technical specification sheets, to include dimensions and weight of the system
6. Typical drawings (pdf version of the CAD drawings)
7. Technical training- Biomedical: information to include detailed information about the curriculum and length of the biomedical technical training required for each equipment type.
   - Although the NAC will not award this training along with the equipment, it is imperative that the customer is informed that this training is available. Vendors must demonstrate that they can provide any required off-site training, therefore off-site training should be quoted as an optional item. Off-site training will be purchased at the time of need via a modification (if the original order remains open) or via a separate order. No travel expenses for any VA employees will be included in any HTME equipment or training order.
8. Support information to include your company's support structure during and after the warranty period
   - On-line or telephonic applications support and availability (include third party coverage)
   - A listing of field service engineer locations and availability
   - A listing of part depots

F. TRADE-IN

☒	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.

The following equipment is available for trade-in. Please reflect any credits provided for trade-in equipment in the proposal.

Station	640 Palo Alto CA
Manufacturer	Philips
Model	iE33
EE/Asset Number	112715
Serial Number	B03Y3Z

Veterans Health Administration
Healthcare Technology Management

Station	640 Palo Alto CA
Manufacturer	Philips
Model	iE33
EE/Asset Number	98864
Serial Number	034K0J