

Equipment Specifications

Ultrasound

VISN20/VA Puget Sound – Seattle Division

663-B90045

A. REQUIREMENT OVERVIEW

This document highlights the technical specifications and services being requested by VISN 20 VA Puget Sound – Seattle Division for consideration towards the purchase of one portable general-purpose ultrasound for the Emergency Department. It will be used for bedside ultrasounds to check for free fluid in the abdomen, volume status, cardiac function, etc. Offerors under this proposal shall provide all equipment and accessories, equipment installation services, training, and project management support.

Facility	Quantity
VA Puget Sound – Seattle Division	1

B. TECHNICAL REQUIREMENTS

1. Unit physical specifications

a. Minimum screen size [in]	19
b. Minimum monitor rotation [deg]	85 deg left and right, up and down
c. Minimum monitor tilting [deg]	85 to 110 deg
d. Monitor height range from floor [in]	45 - 65
e. Minimum control panel rotation [deg]	+/-90 deg from center
f. Minimum control panel tilting [deg]	0 to 110 deg
g. Minimum number of transducer ports	3
h. Minimum image storage [GB]	64
i. Minimum battery life [hr]	1

2. Scanning modes

<input checked="" type="checkbox"/>	a. Two-dimensional (2D)
<input checked="" type="checkbox"/>	b. Pulse Inversion Harmonic Imaging
<input checked="" type="checkbox"/>	c. Tissue Harmonic Imaging
<input checked="" type="checkbox"/>	d. M-Mode
<input checked="" type="checkbox"/>	e. Pulsed Wave Doppler (update and simultaneous)
<input checked="" type="checkbox"/>	f. Continuous Wave Doppler
<input checked="" type="checkbox"/>	g. Velocity Color Doppler



<input checked="" type="checkbox"/>	h. Color Power Doppler
<input checked="" type="checkbox"/>	i. Tissue Doppler Imaging

3. Doppler displays

<input checked="" type="checkbox"/>	a. Frequency
<input checked="" type="checkbox"/>	b. Velocity
<input checked="" type="checkbox"/>	c. Power (microvascular/directorial)
<input checked="" type="checkbox"/>	d. Duplex

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

5. Additional specifications

<input checked="" type="checkbox"/>	a. Portable system
<input checked="" type="checkbox"/>	b. Storage basket
<input checked="" type="checkbox"/>	c. Split screen
<input checked="" type="checkbox"/>	d. Image annotation
<input checked="" type="checkbox"/>	e. Exam presets
<input checked="" type="checkbox"/>	f. Configurable user interface
<input checked="" type="checkbox"/>	g. User defined exam types
<input checked="" type="checkbox"/>	h. Automated adaptive image optimization
<input checked="" type="checkbox"/>	i. 2D gain image optimization with a push of a button
<input checked="" type="checkbox"/>	j. Color and Doppler Flow optimization (low, medium, high)
<input checked="" type="checkbox"/>	k. Ability to create patient worklist without order or network connection
<input checked="" type="checkbox"/>	l. Beam steering
<input checked="" type="checkbox"/>	m. Ability to enter standby mode or sleep mode
<input checked="" type="checkbox"/>	n. Needle enhancement
<input checked="" type="checkbox"/>	o. Image editing – easy video editing and annotation
<input checked="" type="checkbox"/>	p. Reduction of speckle noise and image artifacts while enhancing tissue margins
<input checked="" type="checkbox"/>	q. Contrast resolution improvement
<input checked="" type="checkbox"/>	r. Shape beam to pinpoint precision
<input checked="" type="checkbox"/>	s. External battery pack and docking station on stand to charge ultrasound without having to plug in power cord
<input checked="" type="checkbox"/>	t. Digital calipers

6. Security/Connectivity requirements



<input checked="" type="checkbox"/>	a. OEM-supported operating system
<input checked="" type="checkbox"/>	b. Latest DICOM print, store, commit, and modality worklist
<input checked="" type="checkbox"/>	c. Wireless connectivity to VA network – Compatible with 802.11b/g/n and FIPS 140-2 compliant
<input checked="" type="checkbox"/>	d. Encrypted hard drive

7. Transducers

Description	Qty	Frequency Range [MHz]
a. Linear (arterial, breast, lung, MSK, nerve, small parts, venous)	1	13-16 MHZ
b. Curved (abdominal, gynecology, MSK, nerve, obstetrics)	1	5-2 MHZ
c. Phased (abdomen, cardiac, lung, obstetrics, orbital, transcranial)	1	5-1 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.

8. 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.

<input checked="" type="checkbox"/>	a. Additional year(s) of warranty
<input checked="" type="checkbox"/>	b. Software and firmware maintenance
<input checked="" type="checkbox"/>	c. Version/platform long-range plan

C. TRAINING REQUIREMENTS

1. Clinical Training

<input checked="" type="checkbox"/>	a. On-site clinical applications training for 3 physicians during go-live
<input checked="" type="checkbox"/>	b. On-site follow-up clinical applications training for 3 physicians once physicians have hands-on experience with the system
<input checked="" type="checkbox"/>	c. Physicians who complete the clinical applications training shall receive continuing education credits (CMEs).
<input checked="" type="checkbox"/>	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.

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



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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

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| <input checked="" type="checkbox"/> | a. VA has no trade-in units to offer. |
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