

# Equipment Specifications

## Ultrasound

VISN 21 SAN FRANCISCO VA HEALTH SYSTEM

662-B90108

### A. REQUIREMENT OVERVIEW

The San Francisco VA Health Care System is requesting for 2 portable, bedside ultrasound devices. These will be used in addition to our current Fujufilm Sonosite ultrasounds. The 2 requested ultrasounds will be used in Anesthesiology Service. The use of ultrasound in clinical practice has expanded dramatically. Ultrasound has become the standard of care for the insertion of central lines and arterial lines, and the performance of regional anesthesia. Data has shown ultrasound makes these procedures faster and safer and opens up the range of available regional anesthesia procedures (supraclavicular and adductor canal blocks have become our most common and cannot be done without ultrasound). Furthermore, bedside cardiac ultrasound is increasing our ability to assess the cause of hemodynamic instability. As a result, we are using our ultrasound consoles more and more, and clinicians are having to wait for console availability. This purchase would achieve two ends: reducing wait times for clinical use, and increasing our ability to perform bedside cardiac ultrasound, as we do not currently have a probe for use assessing cardiac function. Overall, portable, bedside ultrasound devices will be used in visualizing internal anatomy to diagnose the etiology of shock states and hemodynamic instability, and to aid in procedures related to vascular access, regional anesthesia, and chronic pain injections. Overall, we are requesting 2 portable, bedside ultrasound devices with a total of 4 transducers, 2 transducers to be used with each unit.

Facility	Quantity
San Francisco VA Health System	2

### B. TECHNICAL REQUIREMENTS

#### 1. Unit physical specifications

a. Minimum screen size [in]	11
b. Minimum number of transducer ports	2
c. Minimum battery life [min]	60
d. Maximum equipment weight [lb]	10
e. Portable [Yes/No]	Yes

#### 2. Scanning modes

<input checked="" type="checkbox"/>	a. Two-dimensional (2D)
<input checked="" type="checkbox"/>	b. Tissue Harmonic Imaging
<input checked="" type="checkbox"/>	c. M-Mode
<input checked="" type="checkbox"/>	d. Pulsed Wave Doppler
<input checked="" type="checkbox"/>	e. Continuous Wave Doppler



<input checked="" type="checkbox"/>	f. Velocity Color Doppler
<input checked="" type="checkbox"/>	g. Color Power Doppler
<input checked="" type="checkbox"/>	h. Tissue Doppler Imaging
<input checked="" type="checkbox"/>	i. Pulsed Wave Doppler

3. Doppler displays

<input checked="" type="checkbox"/>	a. Velocity
<input checked="" type="checkbox"/>	b. Duplex

4. Control panel specifications

<input checked="" type="checkbox"/>	a. Physical keyboard
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5. Additional specifications

<input checked="" type="checkbox"/>	a. Needle enhancement
<input checked="" type="checkbox"/>	b. Digital calipers
<input checked="" type="checkbox"/>	c. Includes roll stand unit for portability

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. Encrypted hard drive

7. Packages to be used for procedures:

<input checked="" type="checkbox"/>	a. Abdominal
<input checked="" type="checkbox"/>	b. Musculoskeletal Clinical
<input checked="" type="checkbox"/>	c. Vascular – measurement and analysis of vessels
<input checked="" type="checkbox"/>	d. Cardiac
<input checked="" type="checkbox"/>	e. Color Application Package

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. 38mm Linear Array, biopsy compatible, <i>*one total, not per unit</i>	1	13-6 MHz



b. 60mm Curved Array, biopsy compatible, <i>*one total, not per unit</i>	1	5-2 MHz
c. 25mm Linear array, transverse biopsy compatible, <i>*one total, not per unit</i>	1	13-6 MHz
d. 10mm Phased Array, <i>*one total, not per unit</i>	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.

## C. TRAINING REQUIREMENTS

### 1. Clinical Training

<input checked="" type="checkbox"/>	a. On-site clinical applications training for [6] technologists during go-live, <i>*only one needed</i>
<input checked="" type="checkbox"/>	b. On-site clinical applications training for [15] physicians during go-live, <i>*only one needed</i>

### 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
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

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