Equipment Specifications
Ultrasound
VISN 17 Harlingen Valley Coastal Bend
740-B90007

A. REQUIREMENT OVERVIEW

Surgical Department is requesting an Ultrasound system for use by Urology, General and Pain Procedures at the HCC VA facility. Ultrasonography plays an important role in the evaluation of urinary tract disorders in cases of medical or surgical renal disorders, because of its lower cost, availability, and lack of ionizing radiation and because with it there is no need for contrast material injection or ingestion. It needs no intervention or preparation and specifically can differentiate between the multiple causes of flank pain. Urologist-operated sonography is a quick, cost-effective, and time-saving modality for both the physician and patient for obtaining first or final diagnosis. Based on its results, patients can be selected for appropriate management and further assessment.

Facility	Quantity
Harlingen Valley Coastal Bend - HCC	1
To be utilized in Operating Rooms (300 sq ft), Urology rooms and Pain Procedure rooms that are 100 sq ft in size.	

B. TECHNICAL REQUIREMENTS

1. Unit physical specifications

a. Minimum screen size [in]	21 inch
b. Minimum active screen size [in]	11 inch
c. Minimum number of split screens	2 to 20
d. Monitor height range from floor [in]	62” – 69”
e. Control panel height range from floor [in]	62” – 69”
f. Minimum number of transducer ports	3 ports
g. Minimum image storage [days or TB]	80GB
h. Minimum battery life [min]	1 hour
i. Maximum equipment dimensions (HxWxD) [in]	Ability to fit in a room from 100 sq ft to 300 sq ft.
j. Maximum equipment weight [lb]	160 lbs

2. Scanning modes

☒	a. Two-dimensional (2D)

☒	b. Navigation Software
☒	c. Image Fusion Software
☒	d. Tissue Harmonic Imaging
☒	e. M-Mode
☒	f. Simultaneous M-Mode
☒	g. Pulsed Wave Doppler
☒	h. Velocity Color Doppler
☒	i. Color Power Doppler
☒	j. Tissue Doppler Imaging
☒	k. Pulsed Wave Doppler

3. Doppler displays

☒	a. Frequency
☒	b. Velocity
☒	c. Power (microvascular/directorial)
☒	d. Duplex
☒	e. Triplex

4. Control panel specifications

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

5. Additional specifications

☒	a. Image annotation
☒	b. One-button image optimization
☒	c. One-button Doppler optimization
☒	d. Programmable protocols
☒	e. Built-in, customizable PACS-compatible form
☒	f. Ability to create patient worklist without order or network connection
☒	g. Beam steering
☒	h. Needle enhancement
☒	i. Multi-function foot pedal control (programmable preferred)
☒	j. Image editing – easy video editing and annotation
☒	k. Digital calipers

☒	l. 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. Wireless connectivity to VA network – Compatible with 802.11b/g/n and FIPS 140-2 compliant
☒	d. Encrypted hard drive
☒	e. PACS compatibility – [McKesson/ChangeHealth Care] VISTA Imaging, DICOM3 Compliant PACS

7. Analysis packages

☒	a. Abdominal
☒	b. Small Parts
☒	c. Vascular – measurement and analysis of vessels
☒	d. Pelvic
☒	e. Urology
☒	f. Obstetric
☒	g. Breast
☒	h. Cardiovascular Clinical

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. Endocavity	5	2 – 10mhz
b. Linear	2	5 - 13mhz
c. Small Parts Linear	2	5 – 18 mhz
d. Abdominal	2	1 – 5 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. Capable of accepting MRI (both 1.5T and 3.0T) and ultrasound images from other modalities as input and displaying these images on a screen

	☒	b. Prostate gland volume and edge boundaries computation capabilities
	☒	c. Tracking and recording of needle movement during biopsy in 3D coordinates in real-time
	☒	d. Availability of projected, future needle movement during biopsy in 3D coordinates
	☒	e. Ability to overlay previous biopsy images on top of real-time prostate images
	☒	f. 3D-generated model of prostate that can be exported to report, adjustable by additional non-imaging information, such as pathology-related data
	☒	g. Semi-robotic arm, physically-attached to biopsy system, with at least 3 degrees of freedom used to stabilize needle and ultrasound probe movements
	☒	h. Standard planning templates for prostate biopsies
	☒	i. Image storage for any captured images

10. Added Value

☒	a. Additional year(s) of warranty
☒	b. Post-warranty remote diagnostic service program
☒	c. Version/platform long-range plan
☒	d. Exclusive Phased Array and Linear Technology
☒	e. Integrate with Invivo UroNav targeted MR/US biopsy system and MRI Siemens Magnetom Skyra fit 3.0Tesla. Software ver: Syngo E11 AP04. Compatability using following MRI parameters: Fast/Turbo Spin Echo, 2D acquisition, Thickness <3.5 mm, FOV <22cm, MRI Image import via both CD and Network. Compatability with INVIVO Uronav via both physical (CD) media or network connection. Exclusive Phased Array and linear array for Surgical and Nuero Transducers and Exclusive End-Fire Endo Cavity Probe that can provide a 200 degree field of view. Display Modes: B mode, D mode.

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 [3] physicians and [2] Nurses during go-live

☒	d. Technologists who complete the clinical applications training shall receive continuing education credits (CMEs).
☒	e. 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
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	740
Manufacturer	Zonare
Model	Z024-00
EE/Asset Number	EE9932
Serial Number	07617C313J

Station	740
Manufacturer	Zonare
Model	Z.One Ultra
EE/Asset Number	EE2569
Serial Number	4695C310C

Probes: 8 total for trade in.

EE#:	SN#:
16660	09994EX113J
16663	09993EX113J
16661	09996EX113J
16662	09992EX113J

2575	05384EX110D
15689	15397EX116L
15688	15395EX116L
15687	15396EX116L