

Equipment Specifications

C-arm

VISN20/VA Puget Sound – Seattle Division

663-B90041

A. REQUIREMENT OVERVIEW

The Puget Sound VA, Seattle, is requesting a 3D digital mobile C-arm imaging system to be used in combination with image-guided surgery for the purpose of enhanced accuracy in spinal surgery and reduction of x-ray exposure to the patient and staff. This 3D C-arm will be used primarily in Neurosurgery and Vascular surgery. 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 central resolution [lp/mm]	5
b. Minimum range of motion [deg]	Orbital -120/+45
c. Minimum c-arm depth [in]	27
d. Minimum generator output power [kW]	18
e. Minimum monitor size (if dual) [in]	2 x19
f. Maximum system dimensions [L x W x H cm]	219 x 80 x 202
g. Maximum system weight [kg]	609.2
h. C-arm opening [cm]	84
i. Maximum anode heat dissipation [W]	1,000
j. Motorized axes movements [#]	4

2. Additional specifications

<input checked="" type="checkbox"/>	a. 3D Imaging
<input checked="" type="checkbox"/>	b. 3D workstation
<input checked="" type="checkbox"/>	c. 3D reconstruction software
<input checked="" type="checkbox"/>	d. Motorized system
<input checked="" type="checkbox"/>	e. Flat detector technology
<input checked="" type="checkbox"/>	f. Flat surface beneath detector to allow for efficient table-top positioning
<input checked="" type="checkbox"/>	g. Image magnification with a minimum of 3 settings
<input checked="" type="checkbox"/>	h. Low profile tube housing – Vendors are encouraged to propose the smallest housing available.
<input checked="" type="checkbox"/>	i. Tube head controls for use by clinician



<input checked="" type="checkbox"/>	j. Foot pedal
<input checked="" type="checkbox"/>	k. Centering/alignment light for tube head
<input checked="" type="checkbox"/>	l. Forward tube source
<input checked="" type="checkbox"/>	m. Flat panel monitor(s) workstation on a cart with either dual or single high-resolution monitors
<input checked="" type="checkbox"/>	n. Reference monitor
<input checked="" type="checkbox"/>	o. Integrated keyboard on workstation allowing back-up functionality to touch screen control system
<input checked="" type="checkbox"/>	p. Motion and metal detection
<input checked="" type="checkbox"/>	q. Measurement software
<input checked="" type="checkbox"/>	r. Automatic video playback
<input checked="" type="checkbox"/>	s. Integrated dose reporting, specifically RDSR
<input checked="" type="checkbox"/>	t. Digital image rotation, reversal, and image invert
<input checked="" type="checkbox"/>	u. Selectable mode settings for high-level pulse and low dose
<input checked="" type="checkbox"/>	v. Easy positioning of the c-arm – ability to “rainbow” (over-scan) 180° without moving away from the patient
<input checked="" type="checkbox"/>	w. DVD/CD or USB drive
<input checked="" type="checkbox"/>	x. CMOS flat detector technology
<input checked="" type="checkbox"/>	y. Forward tube source
<input checked="" type="checkbox"/>	z. Touchscreen monitor with 180° rotation, up/down and left/right tilt, and up/down motion
<input checked="" type="checkbox"/>	aa. Continuous fluoroscopy
<input checked="" type="checkbox"/>	bb. Emergency stop button on C-arm
<input checked="" type="checkbox"/>	cc. Capability to integrate with surgical navigation systems
<input checked="" type="checkbox"/>	dd. Expanded field of view
<input checked="" type="checkbox"/>	ee. Articulating monitor arm

3. Generator specifications

<input checked="" type="checkbox"/>	a. High-frequency
<input checked="" type="checkbox"/>	b. Automatic dose rate control
<input checked="" type="checkbox"/>	c. Ability to power from a standard wall outlet
<input checked="" type="checkbox"/>	d. Pulse and continuous fluoroscopy modes

4. Advanced applications

<input checked="" type="checkbox"/>	a. Digital Subtraction Angiography (DSA)
<input checked="" type="checkbox"/>	b. Pulsed cine Bolus chase imaging with single contrast injection
<input checked="" type="checkbox"/>	c. Vascular
<input checked="" type="checkbox"/>	d. Orthopedic package
<input checked="" type="checkbox"/>	e. Co2 package

5. Security/Connectivity requirements



<input checked="" type="checkbox"/>	a. OEM-supported operating system
<input checked="" type="checkbox"/>	b. Latest DICOM print, store, commit, radiation dose structured report (RDSR), and modality worklist
<input checked="" type="checkbox"/>	c. Encrypted hard drive
<input checked="" type="checkbox"/>	d. PACS compatibility – Carestream

6. 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. Wireless foot pedal
<input checked="" type="checkbox"/>	b. Additional year(s) of warranty - buy 1 year get 2 nd year at no charge
<input checked="" type="checkbox"/>	c. Post-warranty remote diagnostic service program

C. TRAINING REQUIREMENTS

1. Clinical Training

<input checked="" type="checkbox"/>	a. On-site clinical applications training for 6 technologists during go-live
<input checked="" type="checkbox"/>	b. On-site follow-up clinical applications training for 6 technologists once technologists have hands-on experience with the system
<input checked="" type="checkbox"/>	c. On-site follow-up clinical applications training for 5 Physicians during go-live
<input checked="" type="checkbox"/>	d. Technologists who complete the clinical applications training shall receive continuing education credits (CMEs).
<input checked="" type="checkbox"/>	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. INFORMATION AND OTHER DOCUMENTATION REQUIRED

1. 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



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- 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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