Equipment Specifications
Digital Radiography and Fluoroscopy
VISN1/VA MAINE HEALTHCARE SYSTEMS
402-B91002

A. REQUIREMENT OVERVIEW

This document highlights the requirements, technical specifications, and services being requested by VA Maine Healthcare System towards the purchase of a Radiographic/Fluoroscopic table system that is used for diagnostic radiographic and fluoroscopic examinations. Contractor shall provide all labor, equipment, materials, parts, tools, software, project management and disposal necessary to furnish and install a fully functional Radiographic/Fluoroscopic table system at 1 VA Center Augusta, ME, 04330.

Facility	Quantity
VA Maine Healthcare Systems	1

B. TECHNICAL REQUIREMENTS

1. Unit physical specifications

a. Maximum patient weight [lbs]	Approx. 600lbs
b. Minimum table tilt [deg]	90 deg upright
c. Minimum generator power [kW]	80kW
d. Radiographic kVp range [kVp]	50 to 120kVP
e. Fluoroscopy kVp range [kVp]	50 to 120kVP
f. Minimum pulse rate [frames/sec]	Up to 30 frames/sec
g. Minimum SID range [in]	40in

2. Additional specifications

Generator		
☒	a. High-frequency generator with automatic dose rate control	
☒	b. Continuous and pulsed fluoroscopy ma modes	
Fluoroscopic Tube		
☒	c. Configuration	○ Overhead tube ◉ Floor-mounted
☒	d. Collimation – fully adjustable manual and automatic exposure control with visible light field display. Rotatable +/- 45 degrees	
Fluoroscopic spot device/Imaging tower		
☒	e. Flat panel detector technology	

☒	f. Automated image capture and save, to include last image hold	
☒	g. Variable speed power assist controlled in all directions	
☒	h. Footswitch and tower controls, to provide the following: i. Control of both fluoroscopy and spot shots j. Automatic shut-off when footswitch or tower control is released	
☒	k. Ergonomic, ambidextrous controls	
☒	l. Tabletop travel controls	
☒	m. Collimation control	
Radiographic/overhead tube crane system		
☒	n. Patient alignment system (laser alignment/positioning lights)	
☒	o. Table and upright auto tracking package	
☒	p. Pre-programmed exposure settings located on tube or in control room	
☒	q. Ability to change between table top, upright bucky, and table bucky from tube head	
☒	r. Ability to lower tube to within 16” of the floor when used with the wall stand	
☒	s. Automatic tube crane, protocol-based movement	
☒	t. In room protocol adjustment via tube head or other in-room mounted system	
Control room fluoroscopic/radiographic control panel		
☒	u. Auto HIS/RIS refresh package	
☒	v. Quality control tracking package	
☒	w. UPS for x-ray control/image memory	
☒	x. Ability to send images directly from the control panel (no separate workstation required)	
☒	y. Ability to capture live video	
☒	z. DVD recorder	
Wall stand/fixed wall detector		
☒	aa. Auto tracking of the tube and detector during vertical adjustment at the wall stand and/or tube.	
☒	bb. Tilt-able detector holder with inherent grid (-20 degrees to 90 degrees)	
☒	cc. Height minimum – low enough to complete standing knee exams while patient is standing on the floor	
☒	dd. Height maximum – high enough to complete AP C-spine exams while patient is standing on the floor	
In-room monitor		
☒	ee. LCD in-room monitor	◉ Ceiling-mounted ○ Pedestal-mounted
☒	ff. In-room remote control to orientate and manipulate images	
☒	gg. High contrast black and white	
☒	hh. Anti-glare display	
Removable table detector requirements		
Table requirements		

☒	ii. Ability to tilt 90 degrees in both directions/full tilt	
☒	jj. Full articulation	
☒	kk. Auto-centering option to exact middle while the table is in horizontal or vertical position	
☒	ll. Table movement controls	◉ Tableside ○ Trolley
☒	mm. Removable/adjustable patient handgrips	
☒	nn. Removable/adjustable footrest	
☒	oo. Removable/adjustable shoulder rests	
☒	pp. Motor driven table top movement in the X and Y axis at stated maximum weight capacity.	
☒	qq. Auto tracking of bucky / tube for longitudinal travel	
☒	rr. Ability to lower tabletop height to at least 18” from the floor in the horizontal position at stated maximum weight capacity.	

3. Software Requirements

☒	a. Monitoring of Dosage- The system must be able to supply a technology that allows for monitoring and tracking of radiation dose provided to a patient. DAP accuracy must be 99% reproducible with <2% deviation.
☒	b. Repeat rate – ability to track repeat/retake data to include such items as technologist (required unique identifier), reason for repeat, patient dose, exam type, etc. The data should be exportable to Excel or other databases for tracking, trending, and combining with data from other imaging sources within the facility.
☒	c. Rapid image display, < 5 seconds preferred.
☒	d. Dose Reduction- The system must have systems in place to facilitate regular protocol optimization and reduced radiation dose to the patient.
☒	e. Fluoroscopy Loop – Ability to record and store dynamic fluoroscopy sequences. Storage capacity may be variable according to pulse per second settings (please specify). Please include storage and display options for recorded data review and archive.

4. Security/Connectivity Requirements

☒	a. OEM-supported operating system
☒	b. Latest DICOM print, store, commit, radiation dose structured report (RDSR), and modality worklist
☒	c. Encrypted hard drive
☒	d. PACS compatibility – [Carestream]

5. 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

C. TRAINING REQUIREMENTS

1. Clinical Training

☒	a. On-site clinical applications training for [20] technologists during go-live
	b. Off-site clinical applications training for [3] technologists (to include tuition)
☒	c. On-site follow-up clinical applications training for [20] technologists once technologists have hands-on experience with the system
☒	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	402
Manufacturer	Philips
Model	Bucky Diagnost Analog
EE/Asset Number	29566
Serial Number	SN07000647