

Equipment Specifications

Digital Radiography

VISN 4 / Lebanon VAMC

595-B99012

A. REQUIREMENT OVERVIEW

The Lebanon VAMC in VISN 4 is requesting one digital radiography system to be used at there Cumberland Clinic in Mechanicsburg PA. The system will provide the clinic with the ability to perform x-ray services for Veterans without requiring the Veteran to have to have the services at the main facility or outside in the community. This will help to improve customer satisfaction and wait times.

Facility	Quantity
Lebanon VAMC, Cumberland Clinic	1

B. TECHNICAL REQUIREMENTS

1. System configuration

<input checked="" type="checkbox"/>	a. Fixed wall digital detector
<input checked="" type="checkbox"/>	b. Fixed table digital detector
<input checked="" type="checkbox"/>	c. Wireless digital detector

2. Unit physical specifications

a. Minimum generator output power [kW]	65
b. Minimum number of generator phases	2
c. Minimum generator voltage range [kV]	45-150
d. Maximum radiographic mA exposure @ 100 kVp	800mA
e. Minimum fixed detector size [in x in]	NA
f. Minimum wireless detector size [in x in]	16inx16in
g. Maximum wireless detector weight with battery installed [lbs]	10lbs
h. Maximum 2 nd wireless detector size [in x in]	16inx16in
i. Maximum 2 nd wireless detector weight [lbs]	10lbs
j. Minimum spatial resolution [lp/mm]	2.5
k. Maximum pixel size [µm]	200
l. Maximum time for image display [s]	10
m. Minimum tube height from floor when used with wall stand [in]	8
n. Minimum image plate height from floor [in]	8
o. Minimum tilt of imaging surface [deg]	90



p. Minimum table patient weight limit [lbs]	550
q. Minimum table height from floor [in]	20
r. Bucky tilt range [deg]	90
s. Maximum system dimensions	Room Size of 15ft by 20ft with full functionality of system function.

3. Additional specifications

<input checked="" type="checkbox"/>	a. High-frequency generator with automatic dose rate control	
<input checked="" type="checkbox"/>	b. Flat-panel wireless detector	
<input checked="" type="checkbox"/>	c. Protective weight-bearing cover for wireless detector	
<input checked="" type="checkbox"/>	d. Grid attachments for wireless detector (as required by vendor)	
<input checked="" type="checkbox"/>	e. Table holder for wireless detector	
<input checked="" type="checkbox"/>	f. Bucky tracking for the table and wall stand	
<input checked="" type="checkbox"/>	g. Ability to change between tabletop, upright bucky, or table bucky from tube head	
<input checked="" type="checkbox"/>	h. Free-floating manual tabletop	
<input checked="" type="checkbox"/>	i. Automatic parameter selection	
<input checked="" type="checkbox"/>	j. Dual energy imaging	
<input checked="" type="checkbox"/>	k. Post-processing image enhancement for lines, soft tissue, etc.	
<input checked="" type="checkbox"/>	l. Foot controls on each side of table	
<input checked="" type="checkbox"/>	m. Bariatric Table	
<input checked="" type="checkbox"/>	n. Tube Mount	Floor-Mounted

4. Workstation Requirements

<input checked="" type="checkbox"/>	a. Minimum number of acquisition workstations	1
<input checked="" type="checkbox"/>	b. Minimum acquisition workstation monitor size [in]	19
<input checked="" type="checkbox"/>	c. Minimum acquisition workstation hard drive size [GB]	250
<input checked="" type="checkbox"/>	d. LCD touchscreen acquisition workstation monitor	
<input checked="" type="checkbox"/>	e. UPS for x-ray control/image recovery to bring the workstation down safely	
<input checked="" type="checkbox"/>	f. Ability to send images directly from the control panel (no separate workstation required)	

5. Software Requirements

<input checked="" type="checkbox"/>	a. Dose reduction – the system must have systems in place to facilitate regular protocol optimization and reduced radiation dose to the patient
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<input checked="" type="checkbox"/>	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.
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6. 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 – Philips Intellispace

7. 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. Post-warranty remote diagnostic service program
<input checked="" type="checkbox"/>	c. Version/platform long-range plan
<input checked="" type="checkbox"/>	d. Security – ability to protect sensitive patient data using unique user authentication
<input checked="" type="checkbox"/>	e. Additional Wireless Detector

C. TRAINING REQUIREMENTS

1. Clinical Training

<input checked="" type="checkbox"/>	a. On-site clinical applications training for 2 technologists during go-live
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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.



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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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