

# Equipment Specifications

C-arm

VISN 1/VA Connecticut Healthcare System

[689-B81008]

## A. REQUIREMENT OVERVIEW

VA Connecticut is seeking the acquisition of one (1) C-arm in order to increase the capacity to provide interventional, non-opioid-based pain management strategies to veterans who suffer from chronic pain. At VA Connecticut, the demand for interventional pain procedures has increased dramatically. Currently, there is only one room in which pain procedures can be performed, making the absence of a C-arm the limiting factor in how many patients can be treated per day. We are seeking an additional C-arm to enable use to run two suites for interventional pain procedures daily. This will increase access to pain management services and minimize the need to outsource pain management to community providers.

Facility	Quantity
VA Connecticut Healthcare System: West Haven Campus	1

## B. TECHNICAL REQUIREMENTS

### 1. Unit physical specifications

a. Minimum detector size [cm]	23
b. Minimum central resolution [lp/mm]	2.2
c. Minimum range of motion [deg]	270
d. Minimum c-arm depth [in]	26
e. Minimum generator output power [kW]	15
f. Minimum monitor size (if dual) [in]	19
g. Minimum monitor size (if single) [in]	N/A
h. Maximum system dimensions [cm]	N/A
i. Maximum system weight [kg]	N/A

### 2. Additional specifications

<input checked="" type="checkbox"/>	a. Low profile tube housing – Vendors are encouraged to propose the smallest housing available.
<input checked="" type="checkbox"/>	b. Foot pedal
<input checked="" type="checkbox"/>	c. Flat panel monitor(s) workstation on a cart with either dual or single high-resolution monitors
<input checked="" type="checkbox"/>	d. Integrated keyboard on workstation allowing back-up functionality to touch screen control system
<input checked="" type="checkbox"/>	e. Measurement software
<input checked="" type="checkbox"/>	f. Automatic video playback



<input checked="" type="checkbox"/>	g. Digital image rotation, reversal, and image invert
<input checked="" type="checkbox"/>	h. Selectable mode settings for high-level pulse and low dose
<input checked="" type="checkbox"/>	i. DVD/CD or USB drive

3. Generator specifications

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

4. Advanced applications

<input checked="" type="checkbox"/>	a. Roadmap technology for vascular imaging, to include Increased frame rate from base model 30fps or greater Real-time digital subtraction Roadmapping Increased image storage (1000 images or greater) Bolus tracking Vessel measurement tools and calculations Catheter/guidewire visualization enhancement Preset vascular profiles
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5. Security/Connectivity requirements

<input checked="" type="checkbox"/>	a. OEM-supported operating system
<input checked="" type="checkbox"/>	b. DICOM 3.0 print, store, commit, and modality worklist
<input checked="" type="checkbox"/>	c. HL7 integration (HIS/RIS)
<input checked="" type="checkbox"/>	d. Wireless connectivity to VA Network – Compatible with 802.11b/g/n and FIPS 140-2 compliant
<input checked="" type="checkbox"/>	e. Encrypted hard drive
<input checked="" type="checkbox"/>	f. 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. Continuous fluoroscopy
<input checked="" type="checkbox"/>	b. Wireless capability

## C. TRAINING REQUIREMENTS

Description	No. of Personnel
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1. On-site clinical applications training during go-live for technologists. This training shall cover, in detail, all the software packages.	3
2. On-site follow-up clinical applications training for technologists after they have hands-on experience with the system.	3
3. Biomedical technical training package (to include tuition)	1

Biomedical technician training shall include any prerequisites required prior to the training and shall be equivalent to the training received by OEM field service representatives. Technicians shall be given all service manuals, schematics, diagrams, diagnostic software, other special tools, and keys equivalent to what OEM field service representatives have available to diagnose, troubleshoot, repair, and maintain the equipment.

Technologists who complete the clinical applications training shall receive continuing education credits (CMEs).

Off-site training will not be purchased at the time of award. Vendors must demonstrate that they can provide any required off-site training listed above, therefore off-site training should be quoted as an optional item. Travel for VA employees is not authorized under the HTME contracts. In no case should any training include expenses for travel or travel for VA personnel at no cost.

#### **D. SERVICE REQUIREMENTS**

1. VPN/Remote Access – The vendor shall provide, at no additional cost, 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 system manager (super user) manual outlining back-up procedures, managing privilege group limits, routine tasks, etc.
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 requirements with their proposals. 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. Product brochures



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2. Technical specification sheets, to include dimensions and weight of the system
  3. DICOM Conformance Statement
  4. IHE integration statement
  5. FIPS 140-2 certification
  6. Completed pre-procurement assessment form (6550)
  7. Completed MDS2 form
  8. Detailed information about the curriculum and length of the biomedical technical training
  9. Details on any off-site training offered for technologists
  10. Information about your company's support structure during the warranty period
    - a. Describe on-line or telephonic applications support and availability
    - b. Provide a listing of field service engineer locations and availability
    - c. Provide a listing of part depots
  11. Information about your company's support options following the warranty period, including a description of on-line or telephonic applications support and availability
  12. Version/platform long-range plan
  13. Two (2) copies of the product service manual (1 hard copy and 1 digital copy)
  14. Information on any FDA safety recalls associated with the proposed equipment

## **F. TRADE-IN**

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