

# Equipment Specifications

Mini C-arm

VISN 1 / VAMC TOGUS

[402-B81002]

## A. REQUIREMENT OVERVIEW

VA Maine HCS is seeking to procure a Mini C-Arm to be utilized in our surgical clinics. This unit will bridge the gap of diagnosing patients in which a full size surgical C-Arm is not appropriate such as the screening of hands and other extremities.

Facility	Quantity
VA Maine HCS	1

## B. TECHNICAL REQUIREMENTS

### 1. Unit physical specifications

a. Minimum detector size [cm/in]	13cm / 5 inch
b. Minimum resolution [Pixel x Pixel]	1.3k x 1.3k
c. Minimum orbital range of motion [deg]	120
d. Minimum c-arm depth [in]	18
e. Minimum generator output power [W]	12.5 W
f. Minimum monitor size (if dual) [in]	19
g. Minimum monitor size (if single) [in]	24
h. Maximum system footprint [in] (LxW)	1200
i. Maximum system weight [kg]	500
j. Minimum Max Ma @80kVp	0.16

### 2. Technology specifications

<input checked="" type="checkbox"/>	a. Flat detector technology
<input checked="" type="checkbox"/>	b. Low Dose mode or similar dose reduction technology
<input checked="" type="checkbox"/>	c. Image magnification
<input checked="" type="checkbox"/>	d. Consistent field of view during rotation
<input checked="" type="checkbox"/>	e. Low profile tube housing – Vendors are encouraged to propose the smallest housing available.
<input checked="" type="checkbox"/>	f. Dual Tube head control for use by clinician
<input checked="" type="checkbox"/>	g. Foot pedal
<input checked="" type="checkbox"/>	h. Centering/alignment tool
<input checked="" type="checkbox"/>	i. Forward tube source
<input checked="" type="checkbox"/>	j. Flat panel high resolution dual monitors ( live and reference)



<input checked="" type="checkbox"/>	k. Reference monitor with touch screen technology
<input checked="" type="checkbox"/>	l. Integrated water resistant keyboard
<input checked="" type="checkbox"/>	m. Metal detection technology
<input checked="" type="checkbox"/>	n. Measurement software
<input checked="" type="checkbox"/>	o. Motion artifact and noise reduction technology
<input checked="" type="checkbox"/>	p. Structured dose reporting, RDSR
<input checked="" type="checkbox"/>	q. Digital image rotation, reversal, and image invert
<input checked="" type="checkbox"/>	r. DVD/CD or USB drive
<input checked="" type="checkbox"/>	s. Audible/visual (x-ray on) warning

### 3. Generator specifications

<input checked="" type="checkbox"/>	a. High-frequency, max KVP $\geq 80$
<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. 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 2.4G, 5G
<input checked="" type="checkbox"/>	e. Encryption compatible with WEP, WPA/WPA2
<input checked="" type="checkbox"/>	f. PACS compatibility – Care Stream
<input checked="" type="checkbox"/>	g. Encrypted hard drive

### 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.

<input checked="" type="checkbox"/>	a. Wireless footswitch
<input checked="" type="checkbox"/>	b. Touchscreen monitor with 180° rotation, up/down and left/right tilt, and up/down motion
<input checked="" type="checkbox"/>	c. Continuous fluoroscopy
<input checked="" type="checkbox"/>	d. Battery Backup
<input checked="" type="checkbox"/>	e. Carbon Fiber construction for weight reduction
<input checked="" type="checkbox"/>	f. Capability of powering up the c-arm and the workstation separately
<input checked="" type="checkbox"/>	g. CMOS flat detector technology



## C. TRAINING REQUIREMENTS

Description	No. of Personnel
1. On-site clinical applications training during go-live for technologists. This training shall cover, in detail, all the software packages.	5
2. On-site follow-up clinical applications training for technologists after they have hands-on experience with the system.	5
3. Biomedical Training 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
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

- |                                     |  |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | 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. |
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The following equipment is available for trade-in. Please reflect any credits provided for trade-in equipment in the proposal.

Station	Togus
Manufacturer	Hologic
Model	Insight II
EE/Asset Number	32722
Serial Number	09-0709-10

