

Functional Requirements for **Portable Digital X-Ray System**  
For **Minneapolis (618)** VA Medical Center **618-B69068**

## Technical Requirements

### Portable System Requirements:

1. 30kW generator or similar with High Frequency
2. Grid available in both portrait and landscape
3. On-board image touch screen display
4. Integrated dose reporting
5. Battery operated and has a motorized drive
6. Minimum 15 degree target
7. Ability to fully fill a 14x17 field at 40 inches (even when the collimator is rotated)
8. Minimum 270 degree tube rotation in both directions
9. Programmable IP destinations for images to be sent
10. kV range: 35-125kV in steps of 1kV or similar
11. mAs range: 0.1 – 400mAs or similar
12. Tube max: 125kVp
13. If running a Windows Operating System, the OS will be Windows 7 or higher
14. Computer hard disk 300GB or greater
15. Image Storage
16. Ability to take exposure via wireless remote control
17. Collapsible column
18. Worklist from RIS to be available at point of care
19. Wireless – compatible with 802.11g
20. Provide DICOM Conformance Statement
21. Provide completed Pre-procurement Assessment Form (6550)
22. FIPS 140-2 compliant
23. LAN connection (as backup)
24. Full warranty – minimum one (1) year

### Desired Options:

1. Pre-programmed exposure settings
2. On-board user monitor with pop-up keyboard
3. Ability to move portable unit from tube head/extension arm
4. Provide options/solutions for manual movement of portable when batteries are depleted
5. Retake analysis

### Detector Requirements:

1. Size – No bigger than 35cm x 43cm rectangular design
2. Resolution – minimum 2.0 lp/mm
3. Weight Limit (w/battery installed) – less than 10.0 lbs
4. Wireless (not tethered to the system/table)
5. Provide maximum patient weight (in lbs) for weight bearing examinations (should be at least 352 lbs)
6. Full one (1) year warranty including drop protection
7. Provide maintenance requirements and drop policy (post warranty)

**Documentation to Provide:**

1. DICOM Conformance Statement
2. Pre-procurement Assessment Form (6550)
3. FIPS 140-2 Compliance Certificate

**Support**

1. Provide information about your company's support structure during the warranty period (i.e. a listing of Field Service Engineer locations and availability, support 800 phone number(s), remote support, etc.). Upon service being requested, call back time of 1 hour and on-site support within 4 hours is required.

**Training**

1. On-site applications during GO-LIVE – Minimum 24 hour
2. Super User training during Go-LIVE
3. Follow Up on-site training – minimum 24 hour