

**Nuclear Medicine Capital Equipment Specifications**  
**Diagnostic SPECT/CT – VA Maryland Health Care System – 512-B20618**

VA Maryland Health Care System is requesting a diagnostic SPECT/CT. This equipment will be used to provide diagnostic quality CT images for soft tissue which includes – Octreoscans, Parathyroid scans, MIBG scans, I-131/I-123 scans, Liver scans with labeled red blood cells, infection imaging with labeled white blood cell scans, bone imaging in obese patients, and other miscellaneous SPECT/CT uses.

**Main Nuclear Medicine System**

1. Dual Detector with Variable Angle
2. Large Field of View: minimum UFOV 50cm x 38cm
3. Table Weight Limit > 400lbs
4. Energy Range Minimum 60-550keV
5. CTAC Timing Resolution equal to or less than 0.5 Sec, multiple kVp, mA
6. Iterative Reconstruction for CTAC
7. Hi Resolution Detector – 3/8” Crystal
8. High Performance Dual Head Configuration
9. Our room size is limited therefore, please provide dimensions of the system H x D x W (in), as this will be important evaluation information.

**CT Specifications**

1. Number of simultaneously acquired CT slices - minimum 16
2. Field of View: minimum 50cm
3. Rotation time: minimum 0.5 seconds
4. mA equal to or greater than 300 with dose modulation

**Collimators**

1. Low Energy High Resolution (LEHR) Collimators (x2) – to be used for General All Purposes Images
2. Medium Energy General Purpose Collimators (x2) – to be used for Octreo Scan, Indium imaging
3. High Energy General Purpose Collimators (x2)– to be used for I-131 imaging
4. Collimator Cart(s) – as required by vendor

**Accessories/Additional Items:**

1. ECG/Cardiac Gate
2. Flood Source/Holder
3. Four Quadrant Bar Phantom
4. Point Source/COR Source/Holder
5. Low Contrast CT Phantom/Holder
6. Scanner UPS
7. Main Disconnect Panel
8. Head Holder
9. Patient Arm Support
10. Patient Leg Rest

11. Patient Pallet Extender
12. Patient Table Multi-angle Pivot – to perform stand up images
13. CT Contrast Injector

**Acquisition Workstation** – *located in the control room*

1. Acquisition/Console Hardware
2. Minimum 19" LCD Monitor (quantity as required by vendor)
3. Keyboard/Mouse
4. Workstation UPS (as defined by vendors)
5. Hardware memory upgrade (ex: 24GB RAM)

**Processing Workstation** – *located in the control room – to mimics reading workstation configuration*

1. Acquisition/Console Hardware
2. Minimum 19" LCD Monitor (quantity as required by vendor)
3. Keyboard/Mouse
4. Workstation UPS (as defined by vendors)
5. Hardware memory upgrade (ex: 24GB RAM)

**Reading Workstations** – *(quantity 2 – one in nuclear medicine reading room and one in an office)*

1. Hardware
2. Diagnostic Color Dual Monitor - Minimum 19" LCD Monitor (quantity as required by vendor)
3. Keyboard/Mouse
4. Workstation UPS (as defined by vendors)
5. Supplemental In-room SPECT Acquisition Control
6. Professional Interpretation Workstation Hardware
7. Hardware memory upgrade (ex: 24GB RAM)

**Software**

1. Acquisition Software
2. DICOM 3.0 Compatible Worklist
3. SPECT/CT Processing
4. Nuclear Medicine Diagnostic Applications
5. SPECT/CT Fusion Applications
6. Software Licenses

**Advanced Applications** *(all applications to be included on the all processing and reading workstations)*

1. Whole Body SPECT Capability
2. Advanced Nuclear Cardiology SPECT/CT
3. Advanced Nuclear Cardiology Configuration/Hardware/Processing
4. SPECT/CT MPI Registration/QC Package (ex: Cedars QGS/QPS, Emory TB, 4DM)
5. Advanced Nuclear Oncology
6. Advanced Nuclear Neurology
7. Advanced Iterative Reconstruction/Processing for Nuclear Medicine/Nuclear Cardiology

8. Advanced Resolution Recovery
9. ½ time/dose Planar
10. ½ time/dose SPECT

### **Training**

1. Initial Onsite Applications Training (1 week) – to be used 1 week prior to Go-Live for technologist
2. Go-Live onsite Applications Training (1 week) – to be used for technologists
3. Go-Live onsite Applications Training (1 week) – to be used for Physicians
4. Follow-up Onsite Applications Training (1 week) – to be used with the first 9 months from Go-Live for Technologists
5. Follow-up Onsite Applications Training (1 week) – to be used with the first 9 months from Go-Live for Physicians
6. Offsite Training for two Technologists
7. Offsite Training Travel Package (Lodging/Meals/Transportation)
8. Technical Biomedical Engineering Training for one Biomedical Engineering staff.
9. Technical Biomedical Engineering Training Travel Package (Lodging/Meals/Transportation)

### **Support and other Documentation to Provide:**

1. Provide DICOM Conformance Statement
2. Provide completed Pre-procurement Assessment form (6550)
3. Provide information about your companies 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.)

### **Trade-in**

Option 1

Manufacture: Phillips Healthcare

Model: Skylight

Installed: 5/14/2009

EE#: 512649

Serial Number: 2161-3110