

**Updated 04.21.2016**  
**Nuclear Medicine Capital Equipment Specifications**  
**SPECT/CT Camera – Pittsburgh VAMC – 646-B22019**

**Capital Equipment**

- Capital Equipment - SPECT/CT
- (Dual Detector with Variable Angle, ~~Cephalic & Caudal Tilt~~, Large Field of View: minimum UFOV 50cm x 38cm, Table Weight Limit > 400lbs; Energy Range Minimum 60-550keV; Persistence Scope; ~~CTAC Timing Resolution equal to or less than 0.5 Sec, multiple kVp, mA Max equal to or greater than 300 with dose modulation~~ [note: typical minimum site requirement 27' x 12'; 8k-12k lbs structural support load]), must fit in 20'3" x 19'7" room preferably in non-diagonal orientation
- Hi Resolution Detector – 3/8" Crystal
- High Performance Dual Head Configuration
- NM Scanner License(s)
- LEHR – Low Energy Collimators (x2)
- MEGP – Medium Energy Collimators (x2)
- HEGP – High Energy Collimators (x2)
- PH – Pinhole Collimator (x1)
- LESH – Low Energy Super High or Ultra High Resolution Collimators (x2)
- Fan Beam Collimator (x2)
- Collimator Cart(s)- enough for all collimator sets
- Internal ECG/Cardiac Gate
- External ECG Connectivity/Input
- ECG Monitor/Stand
- Flood Source/Holder
- Four Quadrant Bar Phantom
- Point Source/COR Source/Holder
- Low Contrast CT Phantom/Holder
- Under Floor/Above Ground Cable(s)
- Main Disconnect Panel
- Acquisition/Control Room Console Configuration and Furniture
- RIS/HIS Interface
- Head Holder
- Patient Arm Support
- Patient Leg Rest
- Patient Pallet Extender
- Patient Bed Multi-angle Pivot
- All Applicable Operator's Manuals x 2
- Install/Project Management
- UPS to maintain total system functionality for 10 minutes without facility power - the UPS requirement is for a UPS that will safely bring down the system if there is a power loss

**Workstations**

- Acquisition/Console Hardware
- 19" LCD Monitor
- Keyboard
- Workstation UPS
- Supplemental In-room SPECT Acquisition Control

- Professional Interpretation Workstation Hardware
- Hardware memory upgrade (ex: 24GB RAM)
- Diagnostic Color Dual Monitor 23+”
- Keyboard
- Workstation UPS

#### **Software**

- Acquisition Software
- DICOM 3.0 Compatible Worklist
- Multivendor export
- SPECT/CT Processing
- Nuclear Medicine Diagnostic Applications
- SPECT/CT Fusion Applications
- Software Licenses

#### **Advanced Applications**

- Whole Body SPECT Capability
- Advanced Nuclear Cardiology SPECT/CT
- SPECT/CT MPI Registration/QC Package (ex: Cedars QGS/QPS, 4DM)
- Advanced Nuclear Oncology
- Advanced Nuclear Neurology
- Advanced Iterative Reconstruction/Processing for Nuclear Medicine/Nuclear Cardiology
- Advanced Resolution Recovery
- ½ time/dose Planar
- ½ time/dose SPECT
- Multi-frame Secondary Capture
- Processing Placeholder
- Remote Diagnostic Services
- Applications Support
- 3D/CTA Fusion Overlay
- Cardiac Morphing & EKG synchronization

#### **Training**

- Initial Onsite Applications Training (x1 week)
- Follow-up Onsite Applications Training (x2 weeks)
- Onsite Advanced Applications Training (x 1 week)
- Offsite Training for two technologists (clinical training)
- Offsite Training Travel Package (Lodging/Meals/Transportation)

#### **Options**

- Auto QC
- Advanced Nuclear Cardiology Configuration/Hardware/Processing
- Oncology/Treatment Planning Positioning/Pallet
- Advanced Neurology Applications
- CTAC Coronary Calcium Scoring
- Iterative Reconstruction for CTAC
- Radiation Dose Tracking
- 1 year extended applications support

Extended applications support refers to the ability for users to call technical support and have them remote in for application issues (i.e. the users do not remember how to complete a certain task in the software and need guidance).

- 6 month extended warranty

**Trade In**

Option 1

Vendor: SIEMENS

Model: E. Cam Signature series

Serial Number: 8906

Acquisition year: 2004