

## **Equipment Description**

### **PC18 – General Electric Discovery ST8 PET/CT System**

Discovery ST8 –3D PET with diagnostic CT – Mobile Configuration (with CT Xstream™, Direct 3D and SmartPrep)

Regulatory Compliance - This product is designed to comply with applicable standards under the radiation control for Health and Safety Act of 1968.

Laser Alignment devices contained within this product is appropriately labeled according to the requirements of the center for devices and radiological health.

This product is a CE-compliant device which satisfies regulations regarding electro-magnetic compatibility (EMC) and electro-magnetic Interface (EMI), Pursuant to IEC-60601-1-2.

- 1.1 PET Workstation – desktop
  - Functional Imaging Workstation for PET & PET/CT includes:
  - Functional Imaging Workstation Major Features:
    - Comprehensive clinical library including:
      - Connectivity features/solutions
    - Workflow/productivity benefits including:
  - Programming environment
  - Comprehensive Clinical Library features include:
  - Cardiology suite for NM and PET
  - Tomography suite for the review of single and/or multi-modality studies including NM, PET, SPECT/CT and PET/CT
  - SPEC Motion Correction (Stasis & Hopkins method)
  - Spect/Code Iterative Reconstruction
  - SPECT Compare for comparison of two sets of 3-plane slices
  - First Pass EF Analysis
  - Cardiac LV EF Analysis for Planar Gated Blood Pool
  - L-R Shunt Analysis
  - Renal Analysis for renal perfusion and functional calculation
  - Whole Body Bone & Spots review
  - Dynamic PET Analysis and review
  - Whole Body SPECT
  - Gall Bladder Ejection Fraction
  - Gastric Emptying
  - Esophageal Motility Analysis
  - Lung Ventilation and Perfusion Analysis
  - Change Attenuation Correction
  - Cerebral blood flow segmentation protocol
  - Thyroid Spot Review
  - Thyroid Uptake Index
  - Parathyroid Imaging Analysis
  - Time Activity Curves, Histogram Analysis, and ROI Statistical Analysis
  - Database Tools for updating study information
  - AVI movie and JPEG screen capture creation
- Connectivity Features/Solutions
- LAN (Local Area Network) connectivity

- NM and PET DICOM 3.0 support, including secondary capture image storage and query / retrieve as an SCU and SCP
- CT/MR DICOM Support as an SCP and SCU (Converted into Xeleris database format upon receipt)
- DICOM part 10 import and export via various electronic formats
- Interfile version 3.3 Import and Export
- Legacy STP connectivity for the DS-series Gamma Cameras

Workstation Specifications:

- CD-RW/DVD ROM Drive Combo

Operators Workstation - Discovery ST Main Disconnect Panel. 380/400/415/480 volt, 110 amp, 50-Hz