

V.A. MEDICAL CENTER
 GENERAL WAREHOUSE
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 PORTLAND, OR 97239

 PO# 648-B21663

Item No.	Qty	Description
1	1	<p>DISC PETCT 710 16SL STD</p> <p>Discovery PETCT 710 Standard 16 slice</p> <p>Discovery PET/CT 710 is the next evolution whole body PET/CT system, bringing clinically relevant innovations in an evolutionary platform designed to open doors to new and advanced procedure possibilities in non invasive diagnostic imaging.</p> <p>Built on a Discovery PET/CT platform, the Discovery PET/CT 710 is an important evolution as many of the subsystems have been reimaged to bring advances in managing patient breathing and cardiac movement, reconstruction power, patient positioning, research tools and workflow efficiency, while maintaining high slice sensitivity.</p> <p>An integrated gantry combined with the PET/CT operator console enables fully integrated PET/CT scanning, processing, review and data management.</p> <p>The GE Discovery PET/CT 710 consists of</p> <ul style="list-style-type: none"> o One integrated gantry containing a BrightSpeed Elite CT with Performix Ultra Metal Ceramic X-Ray tube and 16-slice detector, 24 PET detector rings of lutetium based crystals (LBS), high-speed electronics and PET image reconstruction system. o One patient imaging table, one head holder, patient security straps and comfort accessories. <p>Prospective Reconstruction</p> <ul style="list-style-type: none"> o VUE Point HD utilizes a fully 3D iterative reconstruction technique with all corrections within the loop, enhanced resolution with detector geometry modeling, model-based 3D scatter correction inside and scatter estimation outside the field of view, exclusive randoms corrections based on singles and dead-time correction with pile-up estimates providing high image quality and patient throughput. o WideView - PET reconstructed transaxial Field of View coverage of 70cm diameter with CT based PET attenuation correction and CT wide-FOV Display. <p>Motion Management Motion Management tools enable the reduction of motion artifacts caused by patient breathing and cardiac movement by acquiring motion information during the scan and incorporating it into motion related PET/CT applications.</p> <ul style="list-style-type: none"> o 4Dx with VIP replay- Provides integrated list mode processing for generating a variety of scan types (static, dynamic, gated) from a single acquisition <p>Power Management</p> <ul style="list-style-type: none"> o Energy Save Mode - Place the console, PET computers, and gantry into a sleep mode such that non-essential electronics minimize energy usage and heat generation resulting in electricity savings for the facility. <p>Calibration and Daily Quality Control</p>

Daily Quality Assurance at the start of the scanning day is quick and efficient. A single button push launches the DQA procedure, which takes less than 10 minutes and provides you with a daily report. All of this with no additional radiation exposure to your technologists thanks to our automated source loader.

Automated PET calibration and QC with self shielded robotized calibration source handling system provides fast start up and lower dose to staff with documented and reproducible daily QC.

PET Reconstruction

Powerful, expandable GE PET reconstruction technology makes the latest PET/CT workflows clinically relevant by handling massive PET/CT data sets with ease. Its dual Quad-Core processors routinely reconstruct PET images for clinically relevant data reconstruction and display images while your patient is still on the table. Reconstruct fully 3D IR and motion corrected gated studies at incredible speeds.

CT Features Your Discovery PET/CT 710 can be operated as a standalone 16-slice CT scanner. With its exceptional power, remarkable speed, high resolution/low-dose imaging, and full diagnostic capabilities, it can help increase your patient imaging volumes and revenues.

The Discovery PET/CT 710 includes the GE BrightSpeed Elite 16 slice CT that can perform a wide variety of clinical applications not requiring gantry tilt and has the following features Technology

- o 0.625mm FWHM at Helical: Helical reconstruction technologies, crossbeam correction, conjugate ray interpolation and hyper plane helical reconstruction with alpha smoothing method allows Scan Thin 0.625mm, and Recon Thin 0.625mm.
- o Performix tube provides high power for multi-organ acquisition, sub-millimeter slice thicknesses and sub-second scanning. SmartTube technology adapts to clinical needs to improve longevity and reliability.
- o Short gantry geometry offering high X-ray efficiency, in conjunction with hyper generator and the Performix Ultra X-ray tube delivers up to 440mA and seamless throughput
- o Volara Digital DAS, Data Acquisition System, with an increased sampling rate of up to 20% and noise reduction up to 33%, results in outstanding image quality in

signal-starved areas (shoulder, hip, large patient, metal).

o With an optimized beam, the Discovery PETCT 710 with BrightSpeed Elite helps reduce the dose even without post-patient collimation. With post-patient collimation, one half of the beam never reaches the detector, resulting in wasted dose. In GE's

BrightSpeed, the beam narrows before entering the patient, reducing the dose and optimizing the beam for image generation. Dose Management

- o 3D mA modulation acquisitions may reduce dose compared with fixed mA acquisitions. mA modulation is designed to optimize the dose for the user prescribed noise index. Its effect on dose depends on the patient body habitus, and prescribed noise setting.

- o ECG Dose Modulation: prospective ECG dose modulation automatically adjusts the mA to minimize dose during systolic phases of the cardiac cycle.

- o Winner of a National Heroes Award from the Emergency Medical Services for Children, provides pediatric scan protocols based on the Broselow-Luten™ Pediatric System. This Color Coding system is incorporated into the protocol selection on the operator's console and is designed to facilitate pediatric emergency care and reduce medical errors

- o Neuro 3D Filter provides the user the capability to filter head acquisition data using specially designed and optimized 3D filter.

- o Dose report: In conjunction with prospective display of CTDI_{vol}, DLP and dose efficiency, dose report helps clinicians reach ALARA dose, and keep track of it. Report is available in both DICOM secondary capture and structured report format.

Dose Check: Provides the user tools to guide dose given in clinical practice and is based on the standard XR-25-2010 published by The Association of Electrical and Medical Imaging Equipment Manufacturers (NEMA). Dose Check provides the following: Checking against a Notification Value if the estimated dose for the scan is above your site typical dose value, checking against an Alert Value where the user needs specific authority to continue the scan at the current estimated dose without changing the scan parameters, defining Alert Values for Adult and Pediatric with age threshold, audit logging and review, protocol change control

PET/CT Operators Console

- o Fully integrated PET and CT user interface

- o Direct Multi Planar Reformat delivers automated axial, sagittal, and coronal reconstruction with excellent image quality for PET and CT images of the patient data being acquired. Direct3D™ automatically builds 3D models during axial image reconstruction.

- o Volume Viewer: Environment for 3D processing of any CT, MR, 3D X-ray, and PET/CT dataset. It provides exceptional tools for analysis, segmentation, measurements, annotation, filming, and exporting of clinically relevant images. Volume Viewer seamlessly combines anatomical image review with PET quantitative measurement capabilities such as SUV.

- o Freedom Workspace*: Innovative hardware and software creates a convenient, ergonomic working environment. It offers sit/stand and horizontal/vertical monitor flexibility. It can also help reduce noise and heat with remote location of the console.

- o Two 19 -inch diagonal width high-resolution color monitors for image display, analysis, processing, and management of PET, CT, and PET/CT images.

- o Three button mouse with mouse pad

- o 16 frames per second CT reconstruction at full resolution

- o ImageWorks™ provides instant access to advanced image processing features such as SmartScorePro, CT Perfusion 4 Multi Organ, CT Perfusion 4 Neuro, Advanced Vessel Analysis, CardIQ Xpress Pro or Plus, AutoBone, CardEP and DentaScan

PET/CT Service Features

Each system is supported by GE's InSite™ remote diagnostics, iLinq™, and TiP Virtual Assist.

InSite broadband - all hardware and software required to remotely connect this PET/CT system to GE's InSite On-Line Center via secure VPN high-speed Internet connections. Enables access to services designed to reduce downtime, improve quality, enhance performance, increase productivity, and expand imaging capabilities with increased privacy and security of data transmissions.

2	1	Disc 600-690 Rear Gantry Laser Lights
		Discovery PET/CT 600/690 rear gantry and patient laser landmark option.
3	1	PET/CT Standard Length Cables
		Standard length cable set for Discovery PETCT 600, Discovery PETCT 690 Elite and Discovery PETCT 690 VCT
4	1	14.4 KVA UPS FOR PET
		Partial System Uninterruptible Power Supply(UPS) which has been specifically designed to coordinate with GE Healthcare Discovery PET/CT scanners. The use of a Partial System UPS can provide significant productivity benefits to the user. In the event of a power outage, a partial system UPS provides continuous back-up power to the scanner host and control computers, thus assuring no loss of usable scan data. In addition, critical circuits in the gantry and table remain powered which facilitate the safe removal of the patient from the scanner. If power is restored within the battery hold-up time, the operator can continue scanner operations without the need to reboot the system. When longer power outages are anticipated, the UPS provides time for the operator to safely remove the patient and complete an orderly shutdown of the system software. The UPS provides clean, reliable, constant voltage power to the scanner electronics. It protects the systems sensitive electronic components from damaging power anomalies such as high frequency noise transients and over voltage & under voltage conditions.
		Approved for use with most PET/CT scanners. (Please Refer to factory for verification of specific system compatibilities.)
5	1	Bar Code Reader -USB
		USB Bar Code reader for use with ConnectPro (optional) Connect Pro - Offers New Levels of Productivity by Providing a Connection Between the Facilities Hospital (HIS) or Radiology IRIS) Information System. ConnectPro Simplifies and Eliminates Errors in Patient Data Entry.
6	1	RAD RX
		RadRx
		Automatically combine various CT techniques within the same acquisition session, and use them for PET attenuation correction.
		Average Cine CT reduces the impact of attenuation correction mismatches. It provides better quantitative accuracy resulting in greater than 50% difference in SUV.
7	1	CARDIAC ACQC
		Attenuation Correction Quality Control ensures proper cardiac registration in PET and CT, particularly useful in Cardiac stress rest PET/CT application. Mis-registered PET and CT attenuation correction data due to organ motion may be re-aligned and reconstructed again to try and recover proper PET attenuation correction to help avoid CT AC re-scans.

8	1	VUE Point FX
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Next generation in time-of-flight image reconstruction, VUE Point FX leverages the innovative VUE Point HD iterative process by adding timing information to each step within the iterative loop and improving signal-to-noise ratio.

9	1	Q.CORE +1
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Item No.	Qty	Description
		<p>Q.Core +1</p> <p>Powerful, expandable GE PET reconstruction technology makes the latest PET/CT workflows clinically relevant by handling massive PET/CT data sets with ease. Its dual Quad-Core processors routinely reconstruct PET images for clinically relevant data reconstruction and display of images while your patient is still on the table. Reconstruct fully 3D IR and motion-corrected gated studies at incredible speeds. Q.Core +1 option adds the 1st graphics processing unit that extends the clinical utility of the Q.Core even further with reconstruction speeds under 35 seconds for VUE HD studies.</p>
10	1	<p>Varian RPM Camera and Installation</p> <p>Varian RPM with install</p>
11	1	<p>Varian RPM Mount for PET Global Table</p> <p>RPM Mount for GT For PET/CT Only</p>
12	1	<p>DIACOR RTP Flat Tabletop for CT and PET/CT Systems - RT16, DVCT, Disc 600/690, HD750 and VCT</p> <p>DIACOR RTP Flat Tabletop for CT and PET/CT Systems- RT16, DVCT, Discovery PET/CT 600, 610, 690, 710, HD750, and VCT</p> <p>Diacor Radiation Therapy Planning Overlay For GE Healthcare Global Tables, Model 1700, 2000 and PET/CT</p> <p>The Radiation Therapy Planning Overlay, or "CT Overlay", provides a secure flat surface for CT Simulation applications, consistent with the treatment couch, for accurate and reproducible patient positioning.</p> <p>FEATURES/BENEFITS</p> <ul style="list-style-type: none"> o Carbon fiber construction with foam core provides durable, light-weight device with outstanding imaging properties o Varian Exact Technology and Indexing Immobilization Patient Positioning system along entire length of the overlay o Designed specifically for GE Healthcare's Global Table o Easily locks and unlocks from the CT Table, providing easy transition between therapy and diagnostic procedures <p>INCLUDED:</p> <ul style="list-style-type: none"> o Carbon Fiber CT Overlay with locking accessories o Two Varian Exact Couch Indexing Bars o One Varian Respiratory Gating Interface Plate and associated mounting hardware <p>SPECIFICATIONS:</p>

Weight: 30 lbs. (13.61 kg) Length: 85.25 in. (217.17 cm) Width: 20.87 in. (53.0 cm) Height:
1.62 in. (4.12 cm)

13 1

90 Amp Main Disconnect Panel for CT

90 Amp Main Disconnect Panel for CT

This 90 amp main disconnect panel for GEHC CT systems provides emergency shut down, undervoltage protection, overcurrent protection, local disconnect for the imaging system. It also reduces installation time and cost by providing a single-point power connection eliminating the need to mount and wire a number of individual components. The standardized design and testing assures high product quality and

Code. Panel can be surface or semi-flush mounted and includes one remote emergency off push button. Customer is responsible for rigging and arranging for installation by a licensed electrician. ITEM IS NON-RETURNABLE and NON NON-REFUNDABLE Warranty Code: Y

14 1

Discovery PET/CT 690 Pin Source

Discovery PET/CT 690/710 Pin Source

The PET/CT 690/710 Pin Source is a GE-68 line source used to provide necessary calibration of the PET gantry. The line source is also used as a reference standard to perform automated daily quality assurance.

15 1

Patient Arm Support System for Nuclear, PET/CT, MRI

Patient Arm Support for NM, PET/CT, MR

Padded Arm Rest combines total arm support and passive restraint, increasing patient comfort during extended procedures. Designed to accommodate virtually all patients.

Compatible with most Nuclear Imaging systems and can also be used in MRI, CT and PET applications. Constructed with a comfortable, full support polyfoam with a seamless coated finish. Warranty Code: H

16 1

VQC Phantom for Volumetric Registration

VQC Phantom

Quality Control Phantom for Volumetric Registration.

17 1

2 TB USB EXT HARD DRIVE

2 TB USB External Hard Drive

Provides high capacity storage and automatic, continuous encryption for all your files

Provides a user-accessible means of transferring list data to alternative storage, to permit keeping the data while freeing scanner resources for additional patients.

The USB external hard drive will provide storage of 2 terabyte and interface with GE Healthcare Global Operator Consoles via USB 3.0 interface that provides up to 10 times faster data transfer rates compared to USB 2.0 interfaces.

USB 3.0 is backward compatible with USB 2.0

18 1

TiP Applications Discovery PET/CT Succeed Advance Training Program

TiP Applications Discovery PET/CT Succeed Advance Training Program TiP

Applications Discovery Succeed Advance includes:

- 19 onsite days covered over 6 site visits
- 10 hrs TVA
- 1 TiP Headquarter Class

Onsite training and TVA are delivered Monday through Friday between 8AM and 5PM. TELL expenses are included. Headquarters classes are delivered in the Milwaukee area and include travel and modest living expenses.

This training program must be scheduled and completed within 24 months after the date of product delivery.

19 1

PET DISCOVERY 690

PET Discovery 690 (Class/Lab)

Engineer will have completed VCT training prior to attending this course. The Discovery 600 Series course consists of a 5 day in-residence class with labs. It is intended for Service Engineers who are servicing a Discovery 600 or 690 system. It will equip the Service Engineer with over-all system and PET subsystem theory and hands-on lab activities to address technical service issues for the Discovery 600 and 690 systems. Service Engineers will need to have completed the appropriate CT/PET courses before attending. This course must be taken within 2 years from the purchase date.

20 1

X3 WORKSTATION DESKTOP

Xeleris 3 - Functional Imaging Workstation for NM, PET, NM/CT & PET/CT

Xeleris 3 functional imaging workstation is a Nuclear Medicine, PET, NM/CT, and PET/CT processing, analysis, and review system. Designed with productivity in mind, it accelerates workflow and provides a powerful clinical diagnostic tool to the medical

imaging community. Combining streamlined workflow with a comprehensive clinical library and extensive networking capabilities on a functional imaging workstation, Xeleris 3 is the nucleus of productivity in any department. Utilizing the GE Healthcare-wide graphical user interface, Xeleris 3 is the processing and review platform of Discovery NM/CT series, Infinia Hawkeye 4, Ventri, Discovery PET/CT 600 series, and all other cameras in GE Healthcare current offering to provide the automated processing and connectivity necessary in today's demanding environment.

Xeleris 3 operates in a variety of client-server configurations. It features optional Xeleris Floating License (XFL) technology and Xeleris Suite for PACS. XFL allows patient studies and the Xeleris applications needed for their processing and review to be accessed across a LAN or a WAN network on a facility provided Windows-based PCs (minimum hardware and software requirements apply) thus providing an untethered solution for simultaneous use of Xeleris applications across the enterprise. Xeleris Suite extends this power to GE

Healthcare Centricity PACS systems.

Major Features:

- o Comprehensive Clinical Library Including: - Connectivity Features/Solutions
- o Workflow/Productivity Benefits Including: - Aladdin Programming Environment

Comprehensive Clinical Library Features Include:

- o Myovation (TM) Cardiology Suite for NM and PET with Myometrix 3D Analysis Suite
 - o Volumetrix (TM) MI Tomography Suite for the Review of Single and/or Multi-modality Studies Including NM, PET, SPECT/CT and PET/CT
 - o Dynamic Motion Correction provides tools to manually and automatically correct motion introduced during dynamic acquisition
 - o MDC SPECT Motion Correction for General and Cardiac SPECT
 - o SPECT/CoDe Iterative Reconstruction
 - o First Pass EF Analysis
 - o Cardiac LV EF Analysis for Planar Gated Blood Pool
 - o L-R Shunt Analysis
 - o Renal Analysis for Renal Perfusion and Functional Calculation
 - o Whole Body Bone St Spots Review
 - o Dynamic PET Analysis and Review
 - o Whole Body SPECT
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- o Gall Bladder Ejection Fraction

Gastric Emptying

- o Esophageal Motility Analysis
- o Lung Ventilation and Perfusion Analysis
- o Chang Attenuation Correction
- o Cerebral Blood Flow Segmentation Protocol
- o Thyroid Spot Review
- o Thyroid Uptake Index
- o Parathyroid Imaging Analysis
- o Time Activity Curves, Histogram Analysis, and ROI Statistical Analysis
- o Database Tools for Updating Study Information
- o AVI Movie, MFSC, JPEG Screen Capture Creation

Connectivity Features/Solutions

- o NM and PET DICOM 3.0 Support, Including Secondary Capture Image Storage and Query/ Retrieve as an SCU and SCP
- o CT/MR DICOM Support as an SCP and SCU (Converted Into Xeleris Database Format Upon Receipt)
- o DICOM Part 10 Import and Export via Various Electronic Formats
- o Archive DICOM to CD/DVD
- o Interfile Version 3.3 Import and Export
- o Legacy STP Connectivity for the DS-Series Gamma Cameras
- o Queued digital filming and digital hard copy

Workflow/Productivity Benefits Including:

- o Ignite Workflow Technology (When Used with Gamma Cameras Also Supporting This Initiative Like Infinia) for One Button Launch of Acquisition and Processing Tasks
- o Fast & Flexible Search Locates Patients on Any Networked Xeleris
- o Inbox Tool to Review Waiting Datasets and Forward Exams or Reports

Aladdin Programming Environment:

- o Visual Basic Based User Protocol Development Environment
- o Create Protocols by Recording Actions on the Processing Card
- o Protocol Debugger, Text Editor, and Syntax Checker
- o Compatible with Most eNTEGRA and GENIE PO User Aladdin Software o
- o On-line Help Text with Examples for Most Functions

Xeleris Workstation Specifications:

- o Tower PC
- o Intel Core2 Quad Processor Q9300
- o Intel X38 Chipset with 1333Hz front side bus
- o Windows XP Professional Operating System
- o 4 GB DDR II RAM
- o RAID 0 2x80GB SATA II Hard Drive
- o Database Capability: 60 GB or 10000 Studies (Whichever Comes First)
- o Leadership Graphics: NVIDIA Quadro NVS 290 (PCI-E) with 256MB video memory o
- o Integrated Ethernet adapter
- o CD-RW/DVD-RW Multi Drive
- o USB/2 101 Key English Keyboard
- o 23 LCD Color Monitor
- o 1 year Licensed Anti Virus

21 1

Emory Cardiac Toolbox PET Database - 1st License

PET Database for ECToolbox

Optional module to Emory Cardiac Toolbox software that provides Ru-82 database

Options

(These items are not included in the total quotation amount)

Item No.	Qty	Description
22	1	<p>D600 And D690 Elite ASiR Promo</p> <p>Discovery PET/CT 600 or Discovery PET/CT 690 Elite ASiR Promotion</p> <p>Includes:</p> <p>Adaptive Statistical Iterative Reconstruction (ASiR) provides users with a an innovative image reconstruction technology to reduce unwanted noise in diagnostic CT images, allowing users to improve image quality at up to 40 percent less dose.</p> <p>ASiR feature name is licensed for use with a GE X-ray tube. Use of a third party x-ray tube will require purchase of an additional license for these features.</p>
23	1	<p>SHARPIR</p> <p>Advanced system modeling in PET reconstruction that enhances visual contrast and resolution in both whole-body and brain images by incorporating information about the PET detectors point-spread-function response into the 3D iterative reconstruction.</p>
24	1	<p>2M Scan Range</p> <p>2 meter scan option</p> <p>The system can perform a full 2 meter acquisition of both CT and PET data, through the use of a cradle extender and specific acquisition protocols.</p>
25	1	<p>Motion Match</p> <p>Motion Match</p> <p>Acquires and views fused gated PET and CT images on the console These tools find applications in: PET and CT respiratory and cardiac capability for motion analysis. PET and CT dynamic imaging for compartmental PET data model analysis and retrospective CT gating.</p> <p>PET attenuation correction from CT diagnostic data, including dynamic and gated CT techniques for motion management.</p> <p>Part of the new Q.Suite, Q.Freeze combines the quantitative benefits of 4D phase-matched PET/CT imaging into a single static image that uses 100 of the counts collected in the acquisition. Combine with Q.AC to create 4D cine data for attenuation correction of PET images at low dose levels.</p>
27	1	<p>PET Q.STATICOPTION</p> <p>Available on Discovery PETCT 710 Available on Discovery PETCT 610</p> <p>Part of Q.Suite - a suite of innovative new quantitative imaging tools from GE Healthcare designed to help clinicians generate more consistent PET measurements, and therefore assess treatment response more accurately than ever before.</p>

Q.Static Represents a starting point for adding motion correction techniques to your facility and the opportunity to build towards a full 4D phase-matched workflow. Without disrupting your standard static whole-body workflow, we're designing Q.Static to automatically isolate data when organs are in a low motion state, thereby correcting for motion across the entire chest or torso. The result is a single image series with reduced blurring from organ motion, and therefore more consistent quantitation compared to a static image.

28 1

PET Q.AC OPTION

Q.AC

Available on Discovery PETCT 710 Available on Discovery PETCT 610

Part of Q.Suite - a suite of innovative new quantitative imaging tools from GE Healthcare designed to help clinicians generate more consistent PET measurements, and therefore assess treatment response more accurately than ever before.

Q.AC - Accurate attenuation correction is required for quantitative PET imaging. But in large anatomy imaging at low doses, the CT beam may not be strong enough to fully penetrate through the patient to the detector, potentially resulting in variations in attenuation measurements. Our next generation Q.AC algorithm is designed to reduce potential variance, helping to ensure that the attenuation coefficients used in image reconstruction are accurate. This may improve consistency even in the most clinically demanding circumstances.

29 1

Q.CORE +2, WITH GPU

Q.Core +2

Powerful, expandable GE PET reconstruction technology makes the latest PET/CT workflows clinically relevant by handling massive PET/CT data sets with ease. Its dual Quad-Core processors routinely reconstruct PET images for clinically relevant data reconstruction and display of images while your patient is still on the table. Reconstruct fully 3D IR and motion-corrected gated studies at incredible speeds.

Q.Core +2 option adds a 2nd graphics processing unit that extends the clinical utility of the Q.Core even further with reconstruction speeds under 75 seconds for VUE Point FX, time-of-flight studies.

30 1

Varian RPM Camera and Installation

Varian RPM with install

31 1

Varian RPM Mount for PET Global Table

RPM Mount for GT For PET/CT Only

32 1

PET BASIC SERVICE

PET Basic Service (Class/Lab)

The PET Basic Service course requires completion of R0306PT before attending this one week in residence class with labs. It will equip the engineer with the theory and physics of Positron Emission Tomography and the ability to safely operate and identify several GE PET and PET/CT systems at a basic service level. Completion of this course is required to attend a Full Service PET or PET/CT course. Course

Competencies: Upon successfully completing the pre-work and IR course, the student should be able to demonstrate safe practices and take appropriate safety measures against possible hazards while working with PET and PET/CT systems. Perform radioactive pin source handling and conduct radiation surveys for all of the PET and PET/CT systems. Identify the features, functionality, and major components. Perform simple non invasive repairs. Operate GE PET and PET/CT systems at the application level for performance evaluation of the system. This course must be taken within 2 years from the purchase date.

33 1

PET FUNDAMENTALS CD

PET Basic Physics/Instrumentation (Web)

Intended for service engineers who have little or no familiarity with PET or CT/PET systems. The course teaches general processes, concepts, & equipment used in PET and CT/PET scanning and image reconstruction. This course must be taken within 2 years from the purchase date.

34 1

AW Server 16,000 Slices for Data Center - no UPS, Includes DAS, PDU and KVM

AW Server 16,000 Images Data Center Installation

The AW Server delivers distributed 3D Visualization capabilities throughout the Enterprise and at any remote reading location. It utilizes advanced thin client technology to convert virtually any PC to a high-end 3D post processing station. In addition to this, it also serves as a workflow engine enabling optimal collaboration among physicians and allowing 3D visualization to be leveraged easily to diagnose diseases quickly and make sound decisions. The AW Server also enables faster turnaround of post-processed results to referring physicians by allowing them to access the data instantly, while maintaining security and privacy of patient data.

The following capabilities are included in this catalog:

- Unlimited number of clients, up to 16,000 concurrent slices (512x512) can be loaded across all users of the server (advanced applications require purchasable concurrent licenses).
- Two concurrent instances of GSI Viewer (requires optional license purchase) supported.
- Accessories for mounting hardware in your data center rack. Please refer to AW Server site requirements document for details on rack space needed.

Key features:

- Access to 3D visualization capabilities including MIP/MPR/VR, segmentation, flythroughs and PET/CT from any number of client PC's by simply downloading a client application from the server's web interface. Unique "Smart Compression" technology automatically displays full fidelity static images even when compression is turned on for increased interactivity. This allows for diagnostic reads on full fidelity static images even at low bandwidth. On-image visual indicators notify user when compression is in effect.

- Intuitive work list interface with custom work lists, easy access to priors and exam states.
- Programmable ability to automatically push saved results to one or more DICOM hosts such as PACS when closing a session.
- Optional pre-processing capability to automatically process exams in background based on preset rules, minimizing wait time and keeping exams ready to read.
- Ability to open up to 3 simultaneous application sessions per user and instantly switch between these sessions.
- Ability to save the state of post processing any time and restore it from any client, allowing multiple radiologists or technologists to contribute to post processing results.
- Ability to float application licenses between AW workstation (requires VolumeShare2 or later), server and Centricity AW Suite.
- Enterprise directory integration for single sign on user authentication with audit trails.
- Support for seamless integration with GE Centricity PACS. (Requires appropriate Centricity PACS software to be installed and integration license for AW Server. Centricity PACS-IW and AW Server integration is currently not validated. Centricity RIS-IC and AW Server integration is currently not validated.) This integration allows for launching AW applications directly from the Centricity PACS RA1000 work list and also features exclusive ability to integrate AW Server and PACS short term storage, hence avoiding the need to duplicate exam data on two (2) different databases.
- Open API's that support any RIS/PACS work list to integrate with the AW Server
and launch AW applications directly from the PACS Interface.
(Requires RIS/PACS vendor to use AW Server open API's and provide appropriate interface to launch AW applications. For more details please refer to AW Server integration manual)

Performance and intended uses:

Performance and interactivity on client PC's depends on the network bandwidth, latency and client PC configuration. To attain optimal performance, minimum bandwidth required is 40Mbps (LAN) with a latency of 20ms or lower. The server may be used over WAN/Internet as well although performance will heavily depend on round trip latency between client PC and server.

The server supports various compression levels selectable by user. The innovative "Smart Compression" technology applies selected compression level only when user is interacting with the images to optimize performance. The images are automatically displayed at full fidelity once interaction stops. Clear visual indication on the images indicates any time compression is being applied to the images. A minimum of 3Mbps bandwidth per client with latency less than 35ms is recommended for reasonable performance when compression is used.

Specifications:

AW Server software is packaged as a turnkey solution that includes off-the-shelf enterprise class hardware for optimal performance.

Server Hardware and O/S:

- 4X Six core Intel Xeon X7542 CPU.
 - 64GB RAM.
 - 2-1 Gbps NIC for DICOM and client traffic.
 - Dedicated Embedded Lights Out Manager (LOM).
 - Fully redundant power and cooling.
 - Novell SUSE Enterprise 11 64-bit Linux. A minimum of 3Mbps bandwidth per client with latency less than 34ms is recommended for reasonable performance when compression is used.
 - 4U form factor (including DAS and UPS).
 - 6TB of usable direct attached image storage with 2U form factor.
 - Raid 10 (striped and mirrored) to maximize data integrity, redundancy and performance.
-

It is the customer's responsibility to make sure every client PC meets these minimum specifications for optimal performance.

Client requirements:

Note: It is the customer's responsibility to ensure that every client PC meets these minimum specifications for optimal performance.

Hardware:

- Processor 2.2 GHz Pentium 4 minimum Dual core processors recommended.
- Memory 1024 MB minimum.
- Disk drive 250MB free space available.
- Screen resolution 1024H x 768V minimum with full color (32 bit) (1280H x 1024V or 1600H x 1200V recommended).
- Network card 100 Mbps minimum (1000 Mbps recommended).
- Internet connection. Customer provided IPSEC VPN, for internet/WAN operation.
- Mouse: Two or three-button mouse. Three button mouse suggested for best use of functions.

Software:

- Operating system Windows XP 32 bit, Windows Vista SP1 32 bit, Windows 7 32 bit, Windows XP SP3 32 bit, Windows Vista SP2 32 bit, Windows 7 SP1 32 bit, Windows XP SP2 64 bit, Windows 7 SP1 64 bit, AW 4.4 (CTT 5.2.10), AW4.6 (SLED11), CT Console (CTT OS 6.3.10), CT Console RT Innovation (CTT 6.3.11), CT Console Cj2.0 (SLES11 SP1), Mac Parallels (Mac OS x 10.6, Parallels 6.0, Win XP Pro SP3 32bit/Win 7 SP1 32 bit).
- Browser Mozilla 1.7.x (or later), Internet Explorer 6.0.x, 7.0.x, Firefox 3.0.x, 3.5.x web browsers.
- Browser security settings JavaScript enabled.

Installation Includes:

- Site readiness survey.

- Integration of server hardware into IT infrastructure.
 - Installation of Enterprise OS.
 - Installation of GE Healthcare applications software.
 - Configuration of active directory (if required).
-
- Configuration of up to 5 DICOM hosts provided prior to installation.
 - Installation of one client for purposes of server testing and applications training.

Service contract and applications training are optionally purchasable. Warranty information can be found in terms and conditions.

Concurrent licenses for supported advanced applications are optionally purchasable.

35 1

AWE LOW TIER POWER CORDS

AWE LOW TIER POWER CORDS

36 1

VS5 S/W ONLY UPGR.F/XW840

VS5 S/W ONLY UPGR.F/XW840

37 1

ONCOLOGY ROUTINE SFL PACK

Oncology Routine Floating License Package with One (1) Single Floating License of each application.

Oncology Routine package contains:

- OncoQuant - (1) Single Floating License
- Integrated Registration - Full Fusion (1) Single Floating License

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PET VCAR Single (and Additional) Floating License

PET VCAR Single Floating License.

PET VCAR Single Floating License provides one concurrent user license for PET VCAR application that can be installed on AW Floating License manager at your facility. This license can be used by any AW in your facility that is "Concurrency Enabled" and is configured to use floating licenses.

Requires:

- AW Floating License Manager to be installed at your facility.
- Atleast one prior purchase of PET VCAR Floating License or conversion of an existing node locked license to PET VCAR Floating License.
- AW's "Concurrency Enabled" to access this floating license.

Included with this order is the PET VCAR Single Floating license.

39	1	<p>AW Server 2 On-Line Training Course</p> <p>Advantage Workstation Server 2 Full Service This online course covers the AW Server 2 system and is intended for engineers that will install and service these systems. The topics include:AW Server Clinical Environment, Pre-Installation and installation tasks, Client installation, Configuration overview, Break/Fix Model, Server diagnostics, administration, and utilities,Clinical applications and product tools. This course must be taken within 2 years from the purchase date.</p>
40	1	<p>AW Server Advanced Installation Services</p> <p>Advance Installation Services - provides 8 hours of labor only service to support the installation of the AW Server</p>
41	1	<p>SERVER P.M. & RMT NETWORK</p> <p>This catalog includes Professional Services of Project Management and IT Network Engineer remotely. Dedicated Project Manager will work with customer IT department hand-in-hand and serve as a single point of contact from project initiation to customer training and turnover. Network Specialist will remotely (GE office) work with customer IT department to help the customer verify all the network parameters and conditions are met. Optimum Network performance is one of the important things for SW Server performance. Recommended hardware changes by the network engineer to improve performance is the responsibility of the customer.</p>
42	1	<p>2 Day TiP Onsite Training Advantage Workstation--PET</p> <p>2 Days TiP Onsite Training Advantage Workstation--PET</p> <p>One 2 day TiP onsite visit for PET Advantage Workstation training. Includes TELL expenses. Days provided consecutively.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>