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**PO# 674-B20037**

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**DISC PETCT 710 16SL STD**

**Discovery PETCT 710 Standard 16 slice**

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.

Built on a Discovery PET/CT platform, the Discovery PET/CT 710 is an important evolution as many of the subsystems have been reimagined to bring advances in managing patient breathing and cardiac movement, reconstruction power, patient positioning, research tools and workflow efficiency, while maintaining high slice sensitivity.

An integrated gantry combined with the PET/CT operator console enables fully integrated PET/CT scanning, processing, review and data management.

The GE Discovery PET/CT 710 consists of

- 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.

**Prospective Reconstruction**

- 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.

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.

- o 4Dx with VIP replay- Provides integrated list mode processing for generating a variety of scan types (static, dynamic, gated) from a single acquisition

**Power Management**

- 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.

**Calibration and Daily Quality Control**

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 TM 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 CTDIvol, 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

#### PET/CT Standard Length Cables

Standard length cable set for Discovery PETCT 600, Discovery PETCT 690 Elite and Discovery PETCT 690 VCT

3 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.)

4 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.

5 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 system reliability, and it is UL and cUL listed for compliance with National Electric 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-REFUNDABLE Warranty Code: Y

6 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.

7 1

MEDTEC Silverman Clear Plastic Head Support

MEDTEC Silverman Clear Plastic Head Support

8 1

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

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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

9 1

Slicker Cushion for PET GT Table

## Slicker Cushion for PET GT Table

Slicker for PET Discovery VCT, Discovery PET/CT 610, 690, and 710

Slicker Cushion Table Systems are comprised of cushion pads permanently encapsulated in clear, micro matte vinyl protective cover system and various accessories. Each Slicker cushion in a lined foam cushion that is permanently welded inside the clear Slicker cover. The cover minimizes contamination of the cushion and the underlying table by preventing penetration by any fluid or other contaminant.

### FEATURES/BENEFITS

- o Built using heavy, clear, micro matte vinyl, polyurethane foam, and top grade hook and loop tape to exactly fit the specified table. Expected life is between 1 to 2 years depending on usage.
- o Designed for easy cleanup and disinfection using standard bleach solutions.

### SPECIFICATIONS

- Dimensions: 110.5" L x 18" W x 1" Thick (with 6" flap on each side)

10 1

VQC Phantom for Volumetric Registration

VQC Phantom

Quality Control Phantom for Volumetric Registration.

11 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

12 1 W0100PT 6 Day PET TiP Onsite System Training 6

Day PET TiP Onsite System Training PET

Onsite Training for a new PET system

- One 4 day onsite visit to coincide with system start-up.
- One 2 day onsite follow-up visit 6-8 weeks post system start up.

During the first visit, the applications specialist will work with the medical and technical staff on system operation and patient procedures. The training produces the best results when a dedicated core group of 2-4 PET technologists complete the session with a modified patient schedule. It is suggested that key physicians are available to participate in the protocol implementation and image quality review sessions. By the end of this visit, the core group should be able to perform the routine patient procedures.

The 2 day revisit is suggested after the staff has run the system for 6-8 weeks, however this is flexible based on the site needs. The training will focus on the intermediate and advanced functions of the system or special needs of the customer. The training produces the best results when the same dedicated core group of 2-4 PET technologists from the initial visit complete the session with a modified patient

schedule.

This training program must be scheduled and completed within 12 months after the date of product delivery.

13 1 W0100CT

6 Day CT TiP Onsite System Training

6 Day CT TIP Onsite System Training

CT Onsite Training for a new CT system

- One 4 day onsite visit to coincide with system start-up.
- One 2 day onsite follow-up visit 6-8 weeks post system start up.

During the first visit, the applications specialist will work with the medical and technical staff on system operation and patient procedures. The training produces the best results when a dedicated core group of 2-4 CT technologists complete the session with a modified patient schedule. It is suggested that key physicians are available to participate in the protocol implementation and image quality review sessions. By the end of this visit, the core group should be able to perform the routine patient procedures.

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The 2 day revisit is suggested after the staff has run the system for 6-8 weeks, however this is flexible based on the site needs. The training will focus on the intermediate and advanced functions of the system or special needs of the customer. The training produces the best results when the same dedicated core group of 2-4 CT technologists from the initial visit complete the session with a modified patient schedule.

This training program must be scheduled and completed within 12 months after the date of product delivery.

14 1

2 Day TiP Onsite Training Advantage Workstation--PET

2 Days TiP Onsite Training Advantage Workstation--PET

One 2 day TiP onsite visit for PET Advantage Workstation training. Includes TELL expenses. Days provided consecutively.

This training program must be scheduled and completed within 12 months after the date of product delivery.

15 1

TiP Discovery PET/CT Clinical Applications - Full Service

TiP Discovery PET-CT Clinical Applications - Full Service

3.5 day TiP PET/CT course held in the Milwaukee area. Includes travel and modest living expenses.

This course focuses on the Discovery Dimension Console functionality, oncology and cardiac imaging protocols, and analysis on Advantage Workstation.

This training program must be scheduled and completed within 12 months after the date of product delivery.

16 2

CT LIGHTSPEED PRO ADV SER

The LightSpeed Pro Advanced course is intended for engineers servicing LightSpeed Pro 16, LightSpeed RT, and forward production LightSpeed 16/Ultra/Plus (starting in 2004) systems. This course must be taken within 2 years from the purchase date.

17 2

PET DISCOVERY 600

PET Discovery 600 Series

The objective of this course is to prepare GE Field Engineers and In House engineers for servicing the new PET Discovery 600 series systems. This course must be taken within 2 years from the purchase date.

18 2

## 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.

## 19 40 Meals And Lodging Expense

Meals and Lodging Expense has been developed to allow the customer the convenience of prepaying for their meals and lodging expenses when attending Technical Service Training at the GE Healthcare Institute located in Waukesha, WI.

The price of this convenience is based on a per day basis. Thus a quantity of 1 is equal to 1 day's meals and lodging expense. When purchasing the meals and lodging expense please be mindful of weekend days during the training stay and include 2 days to cover a weekend in the purchase quantity.

Examples: A 5-day course needs a quantity of 5. Any course longer than 5 days should include 2 days to account for the weekend stay. Any course longer than 10 days will require an additional 4 days of the meals and lodging expense to cover the 2 weekends of the stay. Thus a 15-day course would have a quantity of 19 days to cover the 2 weekends of the stay. This expense must be used within 2 years from the purchase date.

Three meals a day Monday thru Thursday, 2 meals on Friday, plus breaks are provided in the onsite cafeteria. The GE Healthcare Institute cafeteria closes Friday after lunch and reopens Monday morning for breakfast. Weekend meals are the responsibility of the customer.

Only for In-resident courses to be taken at the GE Healthcare Institute. Airfare Expense

The AIRFARE EXPENSE has been developed to allow the customer the convenience to prepay their roundtrip Airfare expenses when attending Technical Service Training at

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the GE Healthcare Institute located in Waukesha, WI. To be used for engineers attending In-Resident Class/Lab courses for Diagnostic Imaging.

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Customer will make their Airfare arrangements thru the GE Travel Center. Specific directions will be provided to the customer upon confirmation of class. Please note that this expense must be used within 2 years of the purchase date

21 4

### Lodging Weekend Expense

### Lodging Weekend Expense

Weekend Lodging Expense is to cover Saturday and Sunday lodging expenses for those engineers who are staying at the Rivers Edge Condos while attending

Diagnostic Imaging Biomed training at the Healthcare Institute. Please note that there are no meals included on the weekend. Must be used within 2 years from the purchase date.

22 2

CT Basic Physics/Instrumentation (web)

CT Basic Physics/Instrumentation (Web)

The CT Fundamentals Course is Designed for Service Engineers who have Little or No Familiarity with CT Systems. The Course Teaches General Processes, Concepts, and Equipment Used in CT Scanning. This Course is Delivered Via the internet as an online training course. This course must be taken within 2 years from the purchase date.

23 2

CT LIGHTSPEED PRO ADV SVC

CT Lightspeed Pro Advanced Service (Web)

Web course is 8 hours long

Sales Description:

Introduction to CT LightSpeed Pro system theory and subsystems

Executive Summary:

This is a computer-based training course intended to prepare Service Engineers on basic system theory for the LightSpeed Pro product line.

Course Competencies:

The curriculum builds on concepts taught in CT Basic Physics and is a prerequisite for the CT LightSpeed Pro and Discovery ST in-resident training classes at the GE Healthcare Institute.

Special Considerations:

A functioning laptop computer with a CD-ROM reader, network card and a modem

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card is required for use during this course. The browser on the computer must be IE4 or Netscape 4.5 or higher. Minimum system requirements include 133 MHz Windows 95, NY 4.0 or higher 32 MB of RAM 16-bit color display adapter. Proof of completion of this eLearning course is necessary prior to attending any subsequent GE Healthcare In-Resident training. This course contains proprietary content. For customers attending this course, special paperwork is required to take this course. Please see the registration page for details on the enrollment process. This course must be taken within 2 years from the purchase date.

24 2

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.

25 2

Troubleshooting Basics Service (web)

Troubleshooting Basics Service (Web)

This Course is Intended for Individuals Involved in Servicing Medical Equipment. By Taking This Course, You will Learn a Proven Process for Troubleshooting Problems with Medical Equipment. You will Also Learn How to Use Various Tools in a Troubleshooting



Situation and How to Interpret Error Messages. This Course Does Not Address How to Troubleshoot Specific Products. It is Recommended That you Have Fundamental Training in a Modality Prior to Taking This Course. This course must be taken within 2 years from the purchase date.

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## NETWORKING & DICOM BASIC

### Networking and Dicom Basic for DI Service (Web)

Training will prepare engineers on configuring and troubleshooting networks, which use the DICOM protocol for transferring patient data and how to read and use

Conformance Statements.

This course covers the following:

- Introduction to 7 layer OSI and 5 layer TCP/IP protocols (Basic model only)
- Identify hardware used in networking
- Review of the most used networking devices, cables, NIC, switch and routers
- Simple network connection with 2 to 5 devices
- Dicom definitions, theory and configuration

This course must be taken within 2 years from the purchase date.

27	1	<p>AW VolumeShare 5 with Two Flat Panel Monitors and 6GB of RAM</p> <p>AW VolumeShare 5 with Two Flat Panel Monitors and 6GB of RAM.</p> <p>AW VolumeShare 5 is a multi-modality image review, comparison and post processing workstation built with simplicity and power at its core. Powerful software is optimized to take advantage of state of the art 64 bit technology and multiple cores to ensure leading edge performance.</p> <p>AW VolumeShare 5 features include:</p> <p>Hardware:</p> <ul style="list-style-type: none"> <li>• HP Z800 Workstation with Intel x5650 Six Core Xeon 2.66 GHz CPU with 8MB Shared L2 Cache / 1333 MHz Dual FSB</li> <li>• 6GB DDR-3 1333 ECC DIMM</li> <li>• 300GB SAS 15,000rpm Hard Disk for OS and Apps.</li> <li>• 600GB SAS 15,000rpm Hard Disks for Image Data</li> <li>• 2 x 19" EIZO MX191 Monitors</li> </ul> <p>Software:</p> <ul style="list-style-type: none"> <li>• Fast access to information you need through optional RIS integration &amp; priors post-fetch</li> <li>• Efficient workflow through dynamic load, end review and Key Image Notes features</li> <li>• Optional productivity package to pre-process exams and allow up to 8 simultaneous sessions</li> <li>• Applications usage monitor to track usage of your system</li> <li>• Smart layouts with Volume Viewer General review protocol that optimizes comparison and single exam layouts</li> <li>• Enhanced multi-modality contouring tool with support for PET SUV's</li> <li>• Support for external DICOM USB media and preference management tool to exchange preferences across users</li> <li>• Support for optional, broad suite of multi-modality advanced applications</li> </ul>
28		<p>AW 4.6 6GB to 12GB RAM Add On</p> <p>Additional 6GB RAM for AW Z800 Hardware</p> <p>AW Remote Access -</p>
29		<p>Requires 8GB RAM</p> <p>AW Remote Access Application</p>

	1	<b>Discovery PET/CT 690 Elite IB</b>
30	1	<p>VPFX RECON PROMO</p> <p>VUE Point FX (TOF) Recon Hardware Promotion provides the hardware enhancements necessary to process Time-Of-Flight data captured with VUE Point FX reconstruction.</p> <p>VUE Point FX:</p> <p>PET iterative reconstruction with iterative corrections leveraging the coincidence timing capabilities of the system. VUEPoint FX reconstruction incorporates timing measurements into the 3D iterative process used in VUE Point HD and patented FX scatter correction method potentially further reducing reconstruction noise.</p> <p>Second BladeCenter Blade:</p>

Powerful, expandable IBM BladeCenter cell technology makes the latest PET/CT technology clinically relevant by handling massive PET/CT data sets with ease. Reconstruct fully 3D IR and motion-corrected gated studies at incredible speeds.

The additional second blade for the Blade Center extends the clinical utility of the Blade Center even further with reconstruction speeds 2 to 4 times faster for VUE Point HD, Motion Free and VUE Point FX studies.

	1	<b>Non Products</b>
31	1	PDC Cassette per PDC quote referencing project number PDC#12xx
	1	<b>Non Products</b>
32	1	Site preparation per Medfacs Quote #20120206Q2