

REQUESTING SERVICE: RADIOLOGY      REQUISITION: 573-B85073  
SHIP TO: CHIEF, AMMS (90D)  
V.A. Medical Center  
1601 SW ARCHER ROAD  
GAINESVILLE, FL

Item No.	Qty	Description
		<b>Discovery MI</b>
1	1	<p>DISCOVERY MI 20CM</p> <p>Discovery MI is the next evolution in whole body PET/CT platform, bringing clinically-relevant innovations in an evolutionary platform designed to open doors to new and advanced procedure possibilities in a non-invasive diagnostic imaging. Many of the subsystems have been reimagined to bring advances in quantitative PET imaging, single PET/CT organ imaging, managing patient breathing and cardiac movement, PET and CT iterative reconstruction technologies, and workflow efficiency, while providing the highest PET sensitivity in the industry.</p> <p>Discovery MI platform introduces new SiPM based PET detector, designed for optimal detection efficiency and clinical versatility. The new SiPM based PET detector sensitivity and NECR properties are optimized to perform with any PET tracer currently available for improved PET/CT imaging thus potentially allowing faster acquisition time and/or lower injected PET dose.</p> <p>The Discovery MI 4ring consists of an integrated gantry containing:</p> <ul style="list-style-type: none"> <li>o anRevolution Evo CT</li> <li>o new SiPM based PET detector composed of 4 PET rings</li> <li>o a scalable PET iterative reconstruction system</li> <li>o a Discovery MI operator console featuring in standard, the following advanced workflow solutions: RadRx patient study prescription; Q.Check a PET data Quantitative integrity check.</li> <li>o a patient imaging table with one head holder, patient security straps and comfort accessories.</li> </ul> <p>Quantitative Imaging</p> <ul style="list-style-type: none"> <li>o Q.Temp – Individual temperature sensor and gain adjustment technique</li> <li>o Q.Check – User configurable data integrity check that can help ensure parameters important for quantitative imaging are saved in the patient DICOM data prior to being sent to the network for analysis and/or archiving.</li> <li>o Q.Prepare</li> </ul> <p>Prospective Reconstruction</p>

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		<p>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.</p> <p>o VUE Point FX, time-of-flight image reconstruction, 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</p> <p>o WideView - PET reconstructed transaxial Field of View coverage of 70cm diameter with CT based PET attenuation correction and CT wide-FOV Display.</p> <p>Motion Management</p> <p>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> <p>o RAD Rx Variable CT protocols within same exam including Average Cine CT for improved attenuation correction</p> <p>Calibration and Daily Quality Control</p> <p>Daily Quality Assurance at the start of the scanning day is quick and efficient. A simple protocol launches the DQA procedure, which takes less than 10 minutes and provides you with a daily report (2).</p> <p>CT Key Features</p> <p>The Discovery MI platform can be operated as a standalone CT scanner (without gantry tilt). It offers exceptional power, remarkable speed, high-resolution/low-dose imaging, and full diagnostic capabilities.</p> <p>The Discovery MI includes the Revolution Evo CT that can perform a wide variety of clinical applications not requiring gantry tilt with Clarity Imaging Chain and ASiR-V(1)† capabilities.</p> <p>o Clarity Imaging Chain consists of Clarity Detector, DAS, Performix*40 Plus X-ray Tube and ASiR-V reconstruction (option), to deliver high resolution imaging.</p> <p>o Silent design of Revolution EVO gantry allows significant</p>

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		<p>reduction of audible noise compared with previous GE technology.</p> <ul style="list-style-type: none"> <li>o IQ Enhance (IQE) reconstruction reduces helical Artifact Index in thin slice helical scanning.</li> <li>o Axial or helical scans of the same anatomy at two different X-ray energies (kVps). To further improve registration accuracy, patient immobilization may be utilized.</li> <li>o Adaptive Enhance Level Adjustment (AELA) may improve visual spatial resolution while maintaining pixel noise standard deviation and artifact.</li> <li>o Organ Dose Modulation provides reduction of radiation dose via X-ray tube current modulation for superficial tissues, such as breasts.</li> <li>o AutomA/SmartmA* modulates X-ray tube mA to account for specific patient anatomy based upon data gathered from the scout image.</li> <li>o Dynamic Z-axis tracking provides automatic and continuous correction of the x-ray beam shape to block unused x-ray at the beginning and end of a helical scan to reduce unnecessary radiation.</li> <li>o One stop scanning mode that provides a streamlined workflow</li> <li>o Direct MPR with Auto-Batch feature, affording automatic real-time direct reconstruction and transfer of fully corrected multi-planar images, also allows users to move from routine 2D review to prospective 3D image review of axial, sagittal, coronal, and oblique planes while enabling automated protocol-driven batch reformats to be created and networked to their desired reading location.</li> <li>o Dose Check provides users with tools to help them manage CT dose in clinical practice and is based on the standard XR-25-2010 published by The Association of Electrical and Medical Imaging Equipment Manufacturers (NEMA).</li> <li>o Dose Reporting: CTDIvol, DLP, Dose Efficiency displays during scan prescription and provides dose information. The CTDIvol, DLP, and Phantom size used to calculate dose is automatically saved once the user selects End Exam. DICOM Structured Dose Report generates a CT Dose Report, which can enable tracking of</li> </ul>

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		<p>dose (CTDIvol and DLP) for the patient by the hospital radiation tracking system/RIS/HIS.</p> <ul style="list-style-type: none"> <li>o Scan mode: Helical Scan Speeds: Full 360 rotational scans: 0.35, 0.375, 0.40, 0.425, 0.45, 0.475, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0 second Helical Pitch (nominal): 0.516 to 1.531 Cardiac Pitch: 0.16 to 0.325 Selectable kV: 80, 100, 120, 140 Selectable mA: 10 to 560, 5mA increments Reconstruction Algorithms: Soft Tissue, Standard, Detail, Chest, Bone, Bone Plus, Lung, Ultra, Edge, Edge Plus</li> <li>o Scan Mode: Axial &amp; Cine Scan Speeds: 0.35, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, and 2.0 second full scans(360 acquisition).</li> <li>o Selectable kV: 80, 100, 120, 140 Selectable mA: 10 to 560, 5mA increments Scan Plane</li> <li>o Reconstruction Algorithms: Soft Tissue, Standard, Detail, Chest, Bone, Bone Plus, Lung, Ultra, Edge, Edge Plus Image Quality 0.28mm high resolution</li> </ul> <p>PET/CT Operators Console</p> <ul style="list-style-type: none"> <li>o Fully integrated PET and CT user interface</li> <li>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 TM automatically builds 3D models during axial image reconstruction.</li> <li>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.</li> <li>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.</li> <li>o Two 19 -inch diagonal width high-resolution color monitors for image display, analysis, processing, and management of PET, CT, and PET/CT images.</li> <li>o Three button mouse with mouse pad</li> <li>o ImageWorks™ provides instant access to advanced image</li> </ul>

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		<p>processing features such as CT Perfusion 4, Advanced Vessel Analysis, CardIQ Xpress Pro or Plus, AutoBone and DentaScan PET/CT Service Features</p> <p>Each system is supported by GE's InSite™ remote diagnostics, iLinq™, and TiP Virtual Assist.</p> <p>InSite broadband – all hardware and software required to remotely connect this PET/CT system to GE's InSite On-Line Center</p> <p>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.</p> <p>* Trademark of General Electric Company.</p> <p>‡ Optional</p> <p>(1) In clinical practice, the use of ASiR-V may reduce CT patient dose depending</p> <p>on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task. Low Contrast Detectability (LCD), Image Noise, Spatial Resolution and Artifact were assessed using reference factory protocols comparing ASiR-V and FBP. The LCD measured in 0.625 mm slices and tested for both head and body modes using the MITA CT IQ Phantom (CCT183, The Phantom Laboratory), using model observer method.</p> <p>(2) Represents typical system performance</p>
2	1	<p>Overlap reconstruction software appropriate for 64 and/or 128 upgrades</p> <p>Overlap reconstruction software appropriate for 64 and/or 128 upgrades</p>
3	1	<p>Q.Clear option</p> <p>Q.Clear is a full convergence iterative reconstruction technology designed to provide up to 2 times improvement in PET quantitation accuracy (SUVmean) with up to 2 times</p>

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		<p>improvement in image quality (SNR) enabling accurate small lesion detection, fast and efficient reading and more confident diagnosis.</p> <p>Q.Clear upgrade for Discovery MI - DR products</p> <p>Pre-requisites:</p> <ul style="list-style-type: none"> <li>o P5051SK SharpIR</li> </ul> <p>Q.Clear upgrade for Discovery 710 products</p> <p>Pre-requisites:</p> <ul style="list-style-type: none"> <li>o P5051SK SharpIR</li> <li>o P5051NL Q.Core + 1</li> <li>o P5051NN Q.Core + 2</li> </ul> <p>Q.Clear Upgrade for Discovery 610 products</p> <p>Pre-requisites:</p> <ul style="list-style-type: none"> <li>o P5051SK SharpIR</li> <li>o P5051NL Q.Core + 1</li> </ul>
4	1	<p>SmartMAR (Metal Artifact Reduction) for Discovery MI DR</p> <p>Metal Artifact reduction (MAR) helps reduce photon starvation, beam hardening and streak artifacts caused by high Z materials in the body, such as hip implants. The clarity of MAR images is addressing the challenges posed by metal artifacts, helping clinicians accurately contour targets and critical organs.</p> <p>MAR offers:</p> <ul style="list-style-type: none"> <li>• Exceptional image quality. MAR is based on the latest in GE Healthcare smart technology, which uses a novel three-step, sinogram-based iterative algorithm.</li> <li>• Streamlined workflow. MAR requires only one scan, making the process of obtaining a corrected image fast and efficient.</li> <li>• Dose conscious. MAR requires only one acquisition.</li> <li>• Patient comfort. The efficient, single-scan process helps to reduce patient time inside the scanner.</li> <li>• Versatility. MAR is designed to enhance clarity across a range of images including scans of hip implants, dental fillings, screws and other metal objects.</li> </ul>
5	1	Q.Prepare option

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		<p>Q.Prepare is a new functionality introduced with Discovery IQ. Critical tool for the operator to perform Quantitative PET imaging, it is designed to facilitate the patient exam preparation.</p> <p>Q.Prepare offers the following functions:</p> <ul style="list-style-type: none"> <li>• Ability to view parameters of prior exams</li> <li>• Compare prior parameters to current exams</li> <li>• Ability to pre-enter study information</li> </ul>
6	1	<p>PET Gating option</p> <p>PET Gating acquisition option for Discovery products. Enables PET respiratory gating scan functionality.</p>
7	1	<p>Q.SUITE OPTION PKG</p> <p>A suite of innovative PET Quantitative tools from GE Healthcare designed to help clinicians generate more consistent PET measurements, and therefore assess treatment response more accurately than ever before.</p> <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.</p> <p>Motion Match - Acquires and views fused gated PET and CT images on the console for: 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; and PET attenuation correction from CT diagnostic data, including dynamic and gated CT techniques for motion management.</p>

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		<p>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> <p>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.</p>
8	1	<p>Q.CORE Power to Q.COREPower+ upgrade for Discovery MI DR</p> <p>Q.COREPower+ is the next generation expandable PET reconstruction technology that makes the latest PET/CT workflows clinically relevant by handling massive PET data sets with ease.</p> <p>While Q.COREPower is the perfect solution for conventional TOF reconstruction, Q.COREPower+ will provide a performance upgrade needed for Q.Clear‡ full convergence iterative reconstruction for advanced acquisition protocol such as cardiac dynamic or respiratory gating.</p> <p>Q.COREPower+ upgrade will allow Discovery MI DR ES user to access</p> <ul style="list-style-type: none"> <li>• MotionMatch‡ 4D PET/CT imaging</li> <li>• Q.Freeze‡ imaging</li> </ul> <p>Pre-requisit: Q.COREPower</p> <p>‡ option</p>
9	1	<p>COLUMBIA LONG LENGTH CABL</p> <p>COLUMBIA LONG LENGTH CABL</p>
10	1	<p>Medium length Chiller Cooling Hose Line</p> <p>50ft Medium Length Chiller cooling hose line. Recommended length to meet most siting room layouts.</p>



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11	1	<p>2M Scan Range option</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>
12	1	<p>Rear Lasers / Gantry Display</p> <p>Rear Gantry Control Panels, Rear Cover Display and Rear Laser Landmark for Discovery MI PET/CT scanner.</p>
13	1	<p>Chair</p> <p>Chair for CT scanner</p>
14	1	<p>CT Service Cabinet</p> <p>Service cabinet for system accessories storage</p>
15	1	<p>PET Annulus Phantom - DQA</p> <p>The PET Annulus DQA (Daily Qualified Assurance) imaging phantom for the Discovery IQ PET system or SIGNA PET/MR system is a uniform solid suspension of Ge-68 encased and sealed in an annular, black plastic shell.</p> <ul style="list-style-type: none"> <li>• Recommended for accurate calibration of your PET detector and easier quality control</li> <li>• Designed to be held in place during use by standard source holders provided with scanning equipment</li> <li>• No mechanical maintenance is required</li> </ul> <p>When a new phantom or pin source is purchased, the e-cat will include a Used Source Return Kit, intended for the immediate return of the depleted source(s) replaced. Note the following condition:</p> <ul style="list-style-type: none"> <li>• Cost to the customer is the return freight</li> <li>• Return kit has an RA# that is good for 6 months, before expiration.</li> <li>• Returns after 6 months subject to additional charges</li> </ul>
16	1	VQC Phantom for Volumetric Registration

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		<p>VQC Phantom</p> <p>PET/CT VQC Volumetric Quality Control Phantom for Discovery, IQ 3-ring (15 cm), IQ 4-ring (20 cm) , IQ 5-ring (25 cm), Discovery 710, 610, 690, 600, Optima 560</p> <p>When a new phantom or pin source is purchased, the e-cat will include a Used Source Return Kit, intended for the immediate return of the depleted source(s) replaced. Note the following condition:</p> <ul style="list-style-type: none"> <li>• Cost to the customer is the return freight</li> <li>• Return kit has an RA# that is good for 6 months, before expiration.</li> <li>• Returns after 6 months subject to additional charges</li> </ul>
17	1	<p>PET Annulus Phantom Shield Container - DQA Safe</p> <p>Wheels feature swivel castors for easy mobility and wheel locks for added stability.</p> <p>Lid features a handle for easier opening.</p> <p>Spring loaded covered hinge assists when lifting the lid.</p> <p>Container latch seals the phantom inside to ensure radiation gaps are eliminated.</p> <p>Latch includes option to use a padlock to secure the phantom in the container.</p> <p>Gusset holes allow the facility to secure the shield to the site with a chain or cable.</p> <p>The container's interior walls feature a soft plastic for easier insertion and removal of the phantom.</p> <p>Weight - approximately 300 lb / 136 kg.</p>
18	1	<p>90 Amp Main Disconnect Panel for CT</p> <p>The 90Amp CT system main disconnect panel (MDP) serves as the main facility power disconnect source installed ahead of the system PDU. The MDP will disconnect system power on first loss of incoming power, helping to prevent damage to system components. It also includes an automatic restart control circuit which restores power to the CT System PDU after a power outage.</p>

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		<ul style="list-style-type: none"> <li>o Can reduce installation time and cost by eliminating delays in obtaining individually enclosed components and on site assembly (ex: main circuit breaker, feeder overcurrent devices, magnetic contactors and UPS emergency power off are combined into a single panel)</li> <li>o Configuration flexibility - can be used as a stand-alone main disconnect or with the optional partial system UPS. (On systems where the optional partial system UPS is used the main disconnect panel also provides NEC mandated emergency power off control to both the PDU and UPS)</li> <li>o Designed and tested for GEHC CT products</li> </ul> <p>Specifications:</p> <ul style="list-style-type: none"> <li>o Automatic restart incorporates an adjustable time delay to delay main power until the power has stabilized for 5 seconds</li> <li>o One flush wall mounted remote emergency off pushbutton furnished with each system</li> <li>o UL, cUL and CE labeled</li> </ul>
19	1	<p>14 KVA 3-Phase Partial UPS for VCT</p> <p>The 14KVA Partial UPS has been specifically designed to coordinate with GE Healthcare CT &amp; PET/CT scanners. In the event of a power outage a partial system UPS provides continuous backup power to the scanner host and control computers, thus assuring no loss of usable scan data.</p> <ul style="list-style-type: none"> <li>o Critical circuits in the gantry and table remain powered which facilitate the safe</li> </ul>

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		<p>removal of the patient from the scanner.</p> <ul style="list-style-type: none"> <li>o If power is restored within the battery hold-up time, the operator can continue scanner operations without the need to reboot the system.</li> <li>o 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</li> <li>o Maintains system electronics and allows critical scanner operations to continue for 10 minutes (typical) after loss of power</li> <li>o Protects electronics from under voltage, brownouts, line sags, over voltage and transients</li> </ul> <p>SPECIFICATIONS</p> <ul style="list-style-type: none"> <li>o Dimensions (H x W x D): 49" x 12" x 32"</li> <li>o Weight: 620 lbs.</li> <li>o Output Frequency: 50 or 60 Hz, auto-sensing</li> </ul> <p>NOTE: ITEM IS NON-RETURNABLE AND NON-REFUNDABLE  NOTE: REMOVAL/DISPOSAL OF OLD UPS IS THE CUSTOMER'S RESPONSIBILITY  NOTE: INSTALLATION AND RIGGING IS NOT INCLUDED  NOTE: CONTACT GE SERVICE OR EATON FOR START-UP ASSISTANCE</p>
20	1	<p>2 TB USB EXT HARD DRIVE</p> <p>2 TB USB External Hard Drive</p> <p>Provides a user-accessible means of transferring list data to alternative storage, to permit keeping the data while freeing scanner resources for additional patients.</p> <p>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</p>

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		transfer rates compared to USB 2.0 interfaces. USB 3.0 is backward compatible with USB 2.0
21	1	CT Footswitch Slicker - 2000 & 1700 Systems CT Footswitch Slicker - 2000 & 1700 Systems The footswitch slicker for CT VCT 2000 and 1700 systems is made of durable, clear PVC plastic that protects the footswitch and facilitates faster, more thorough cleanup of contamination caused by blood and other body fluids. Cover is held securely in place with Velcro...H
22	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 is 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 <ul style="list-style-type: none"> <li>Dimensions: 110.5" L x 18" W x 1" Thick (with 6" flap on each side)</li> </ul>
23	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

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		<p>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</p>
24	1	<p>Discovery PET/CT Training Package (Experienced GE PET/CT Users)</p> <p>Discovery PET/CT Training Package (Experienced GE PET/CT Users)</p> <p>Training designed for users with experience on GE PET/CT. Training package incorporates a variety of instructional methods for optimal learning and retention from basic to advanced system operation. Offers multiple delivery modes including online, live remote, and onsite training. Package includes up to 14 days onsite, and 16 hours of remote training. Program concludes one year after the initial start date. Instruction is provided from 8 AM to 5 PM, Monday through Friday and includes T&amp;L expenses.</p>
25	1	<p>Standard sce pack L3 W</p> <p>GE Healthcare has reclassified its service tools, diagnostics and documentation into various classes (please refer to the Service Licensing Notification statement at the beginning of this Quotation). The Standard License provides access to service tools used to perform basic level service on the Equipment and is included at no charge for the warranty period.</p>
	<b>1</b>	<b>Discovery PETCT 710 IB</b>
26	1	<p>Q.COREPower upgrade for Discovery PET/CT 710 64/128sl</p> <p>Q.COREPower is the next generation expandable PET reconstruction technology that makes the latest PET/CT workflows clinically relevant by handling massive PET data sets with ease.</p> <p>While Q.CORE+ is the perfect solution for conventional TOF reconstruction, Q.COREPower will provide the extra performance needed for Q.Clear† full convergence iterative reconstruction.</p>

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		‡ option
27	1	<p>Q.Clear option</p> <p>Q.Clear is a full convergence iterative reconstruction technology designed to provide up to 2 times improvement in PET quantitation accuracy (SUVmean) with up to 2 times improvement in image quality (SNR) enabling accurate small lesion detection, fast and efficient reading and more confident diagnosis.</p> <p>Q.Clear upgrade for Discovery MI - DR products</p> <p>Pre-requisites:</p> <ul style="list-style-type: none"> <li>o P5051SK SharpIR</li> </ul> <p>Q.Clear upgrade for Discovery 710 products</p> <p>Pre-requisites:</p> <ul style="list-style-type: none"> <li>o P5051SK SharpIR</li> <li>o P5051NL Q.Core + 1</li> <li>o P5051NN Q.Core + 2</li> </ul> <p>Q.Clear Upgrade for Discovery 610 products</p> <p>Pre-requisites:</p> <ul style="list-style-type: none"> <li>o P5051SK SharpIR</li> <li>o P5051NL Q.Core + 1</li> </ul>
28	1	<p>Q.COREPower+ upgrade for Discovery PET/CT 710 64/128sl</p> <p>Q.COREPower+ is the next generation expandable PET reconstruction technology that makes the latest PET/CT workflows clinically relevant by handling massive PET data sets with ease.</p> <p>While Q.CORE+ is the perfect solution for conventional TOF reconstruction, Q.COREPower+ will provide a massive performance upgrade needed for Q.Clear‡ full convergence iterative reconstruction for advanced acquisition protocol such as cardiac dynamic or respiratory gating.</p> <p>Pre-requisit: Q.COREPower</p> <p>‡ option</p>

Item No.	Qty	Description
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**1 NonProducts**

29 1 Rigging for PETCTs

**Trade-In of Siemens Biograph 16**



## Options

Item No.	Qty	Description
30	1	<p>Low Dose 5-Beat Cardiac with SnapShot Assist package</p> <p>The Low Dose 5-Beat Cardiac with SnapShot Assist package allows the user to acquire cardiac imaging exams with retrospective or prospective gated acquisitions utilizing up to 0.35 second rotation speed for excellent cardiac exams.</p> <p>This package contains the following items necessary for CT Coronary Angiography:</p> <ul style="list-style-type: none"> <li>- SmartScore acquisition (B7850PL)</li> <li>- SmartScore analysis (B79971JH)</li> <li>- ECG trace on the operator console (B7864KC)</li> <li>- Cardiac Enhance filter (B7864KD)</li> <li>- CardIQ Snapshot (B7710Ls)</li> <li>- SnapShot Pulse (B7864AA)</li> <li>- SnapShot Assist (B7877FB)</li> </ul> <p>ECG monitor and AW are NOT provided with this package.</p> <p>SnapShot Pulse</p> <ul style="list-style-type: none"> <li>o Prospectively gated cardiac scanning technique that helps reduces patient dose by up to 83%, and improves cardiac workflow, with excellent image quality. In essence, the technique captures a complete picture of the heart using a series of three to four snapshots taken at precise patient table positions and precisely gated (relative to conventional cardiac CT acquisitions).</li> </ul> <p>SnapShot Pulse helps improve workflow by reducing the size of image set to be reconstructed, reviewed and post processed. A typical SnapShot Pulse series consists of 280 to 400 images, compared</p>

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	<p>with up to 3,000 images in a typical helical cardiac scan series. Since there's a smaller number of images to reconstruct, SnapShot Pulse takes less time, yet still delivers the same amount of information as a helical cardiac exam.</p> <p>SnapShot Imaging</p> <ul style="list-style-type: none"> <li>o Retrospectively gated helical gated cardiac scanning technique used to acquire ECG gated CT images of the coronary arteries when prospective gating can't be used.</li> <li>o SnapShot imaging option allows users to acquire cardiac images of patients using the following cardiac imaging techniques: <ul style="list-style-type: none"> <li>(1) Retrospectively EKG-gated helical scanning method - SnapShot: primarily used for cardiac morphology imaging, with this technique, cardiac images of single or multiple cardiac phases at any given Z-axis location can be acquired and generated.</li> <li>(2) EKG-gated Multi-slice CINE Scan mode: used primarily for coronary artery calcification scoring (CACS) studies or for cardiac morphology Imaging.</li> </ul> </li> </ul> <p>Once a specific imaging model is selected, helical pitch and/or gantry rotation speed will be automatically selected for optimal scan coverage and image quality.</p> <p>SnapShot Assist:</p> <ul style="list-style-type: none"> <li>o Helps users Optimize ECG-gated CT acquisitions based on patient heart rate characteristics. SnapShot Assist uses the patient's recorded heart rate information to display scan parameters (including scan mode, cardiac phases, padding and pitch) that could be used during the cardiac CT</li> </ul>

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	<p>scan. SnapShot Assist generates a cardiac scan parameter recommendation using the patient's ECG analysis and user defined protocol selection algorithm.</p> <p>It uses the patient's recorded heart rate information to predict the heart rate behavior during a CCTA scan to assist the user with optimization of the parameters on a per-patient basis. Acquisition parameters displayed include scan mode (Cine SnapShot Pulse, Helical SnapShot Segment, etc.), cardiac phases, padding, and pitch. User Profiles define scan parameters within the heart rate and variability categories for a specific patient group and cardiac scan mode.</p> <p>ECG Trace</p> <p>The ECG trace provided by the ECG monitor will be displayed on the operator's console with this option. ECG Editor:</p> <p>The ECG Editor allows the user to retrospectively modify trigger points identifying R-peaks on ECG trace as displayed on the console. The capability may improve successful cardiac acquisition rate by enabling users to perform the modification in the cases with irregular heartbeat or suboptimal triggers.</p> <p>Cardiac Enhance:</p> <p>Cardiac Enhance Filters provides users the capability to reconstruct filtered images using three steps of noise (pixel noise standard deviation) reduction for helical and axial cardiac imaging, which may allow a reduction of mA while maintaining an acceptable level of image</p>

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		performance.
		ECG Dose Modulation:
		ECG gated dose modulation reduces patient dose by modulating x-ray technique during acquisition based on heart phase.
31	1	<p>PET CARDIAC PACKAGE</p> <p>The PET Cardiac Package allows the user to acquire a cardiac PET exam. This package contains the following items necessary for PET cardiac study:</p> <ul style="list-style-type: none"> <li>- PET Cardiac Gating capability (P5051LH)</li> <li>- Cardiac PET ACQC (P5051LE)</li> <li>- Cardiac VUE (P5051LV)</li> </ul> <p>ECG monitor and AW are not provided with this package.</p> <p>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.</p>
32	1	<p>PET Adjustable Desk</p> <p>Adjustable Desk for PET/CT console.</p>
33	1	<p>Ivy 7800 Cardiac Monitoring Kit</p> <p>The Model 7800 is Ivy Biomedical's fifth generation of cardiac trigger monitors intended primarily for use on patients in applications requiring precision R-wave synchronization. Incorporating a simple,</p>

Item Qty No.	Description
	<p>easy-to-use touchscreen interface, the 7800 displays two simultaneous ECG vectors along with the patient's heart rate. The Trigger ECG vector (top waveform) can be selected from Leads I, II, III, or Auto Lead Select. The Second ECG vector (bottom waveform) can be selected from Leads I, II, III. If required, High and Low heart rate alarm limits can be adjusted to bracket the patient's heart rate so that a violation of these limits produces an audible and visual indication of the alarm.</p> <ul style="list-style-type: none"> <li>o Impedance Measurement: Measures Impedance between the patient's skin and each individual ECG electrode</li> <li>o Automatic operation: After patient cables are connected and the monitor is receiving an ECG signal, the monitor finds the peak of the R-wave and generates synchronization pulses</li> <li>o Bright TFT active matrix 8.4 in. color touch screen LCD with a wide viewing angle and large heart rate characters enhance visibility of patient data</li> <li>o Polarity lock helps reduce the number of false triggers when tall T waves or deep S waves occur</li> <li>o Color trigger mark indicates timing of each trigger pulse with respect to the ECG</li> <li>o System interlock function indicates proper connection with the imaging device</li> <li>o Integrated USB Drive - allows user to store and retrieve ECG events for retrospective analysis</li> </ul>

Item Qty No.	Description
	<p>o Auto-notch selects the correct ECG notch filter. This reduces interference on the ECG signal</p> <p>The Kit includes:</p> <p>Cardiac Trigger Monitor; set of 4 RT lead wires - 30 in, low noise patient cable - lead, Ethernet Internet cables, ECG adult electrode (box of 40), cord-set hospital grade (12ft), NuPrep Gel, USB Memory Stick, Recorder Paper, Roll Stand for 7000 series and IPC cable.</p>