

REQUESTING SERVICE: RADIOLOGY  
SHIP TO: VA Medical Center  
V.A. Medical Center  
Warehouse  
508 Fulton Street  
DURHAM, NC 27705-3897

PURCHASE ORDER: 558-B80012

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Item No.	Qty	Description
1	1	<p data-bbox="537 457 769 478">DISCOVERY MI 20CM</p> <p data-bbox="537 506 1268 856">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 data-bbox="537 869 1268 1150">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. The Discovery MI 4ring consists of an integrated gantry containing:</p> <ul data-bbox="537 1209 1268 1816" style="list-style-type: none"><li data-bbox="537 1209 786 1230">o anRevolution Evo CT</li><li data-bbox="537 1245 1170 1266">o new SiPM based PET detector composed of 4 PET rings</li><li data-bbox="537 1281 1073 1302">o a scalable PET iterative reconstruction system</li><li data-bbox="537 1316 1211 1415">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 data-bbox="537 1430 1247 1488">o a patient imaging table with one head holder, patient security straps and comfort accessories.</li></ul> <p data-bbox="537 1503 776 1524">Quantitative Imaging</p> <ul data-bbox="537 1539 1268 1816" style="list-style-type: none"><li data-bbox="537 1539 1243 1598">o Q.Temp – Individual temperature sensor and gain adjustment technique</li><li data-bbox="537 1612 1260 1745">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 data-bbox="537 1759 634 1780">o Q.Prepare</li></ul> <p data-bbox="537 1795 846 1816">Prospective Reconstruction</p>

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		<ul style="list-style-type: none"> <li>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.</li> <li>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</li> <li>o WideView - PET reconstructed transaxial Field of View coverage of 70cm diameter with CT based PET attenuation correction and CT wide-FOV Display.</li> </ul> <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> <ul style="list-style-type: none"> <li>o RAD Rx Variable CT protocols within same exam including Average Cine CT for improved attenuation correction</li> </ul> <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> <ul style="list-style-type: none"> <li>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.</li> <li>o Silent design of Revolution EVO gantry allows significant</li> </ul>

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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™ 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 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	ASiR to ASiR-V* Upgrade

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		<p>ASiR-V is the newest technology in GE's family of industry leading iterative reconstruction techniques. ASiR-V allows healthcare providers to lower dose by up to 82% as compared to standard filtered back-projection (FBP) reconstruction at the same image quality. (1)</p> <p>ASiR-V may provide the following benefits:</p> <ul style="list-style-type: none"> <li>•ASiR-V reduces dose by up to 82% relative to FBP at the same image quality (1)</li> <li>•ASiR-V improves low contrast detectability by 59% to 135% at the same dose (2)</li> <li>•ASiR-V reduces image noise up to 91% at the same dose (2)</li> <li>•ASiR-V improves spatial resolution up to 2X (107%) at same image noise (2)</li> <li>•ASiR-V image reconstruction has the capability to reduce low signal artifact such as streak artifact compared to FBP</li> </ul> <p>* Trademark of General Electric Company.</p> <p>(1) Image quality as defined by low contrast detectability.</p> <p>(2) In clinical practice, the use of ASiR-V may reduce CT patient dose depending 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>
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</p>

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		<p>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> <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</p>

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		<p>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-requisite: Q.COREPower ‡ option</p>
9	1	<p>COLUMBIA STANDARD LENGTH</p> <p>COLUMBIA STANDARD LENGTH</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>
11	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>

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12	1	<p data-bbox="537 432 1203 457">Low Dose CT Lung Screening Option with Indication For Use</p> <p data-bbox="537 485 1263 909">This option provides lung screening reference protocols that are tailored to the CT system, patient size (small, average large), and the most current recommendations from a wide range of professional medical and governmental organizations. Now, qualified GE Healthcare CT scanners with this option are formally indicated for, and can be confidently used by physicians for low dose CT lung cancer screening of identified high-risk patient populations. These protocols deliver low dose, short scan times, and clear and sharp images for the detection of small lung nodules. Early detection from an annual lung screening with low dose CT in high-risk individuals can prevent a substantial number of lung cancer-related deaths.</p> <p data-bbox="537 919 1268 1272">All new GE 64-slice and greater CT scanners, and virtually all of the 16-slice CT scanners that GE Healthcare sells are qualified for this screening option. This solution is also available to thousands of qualified GE CT scanners currently in use, increasing access to the quality scanners that satisfy both patient and physician needs. The new protocols, do include the choice for the user to be able to utilize GE Healthcare's industry-leading technologies such as ASiRTM, ASiR-VTM and VeoTM that are designed to reduce image noise, which is undesirable for physicians looking for small nodules.</p> <p data-bbox="537 1283 1263 1381">This option contains two documents. Lung Cancer Screening Option Reference Protocol Guide, and the Lung Cancer Screening Option User Manual / Technical Reference Manual</p> <p data-bbox="537 1392 1252 1671">i) The following GE Healthcare CT scanners are qualified to receive the new low dose CT Lung Cancer Screening Option: LightSpeed 16, BrightSpeed Elite, LightSpeed Pro16, Optima CT540, Discovery CT590 RT, Optima CT580, Optima CT580 W, Optima CT590 RT, LightSpeed Xtra, LightSpeed RT16, LightSpeed VCT, LightSpeed VCT XT, LightSpeed VCT XTe, LightSpeed VCT Select, Optima CT660, Revolution EVO, Discovery CT750 HD, Revolution HD, Revolution CT, Revolution Frontier.</p> <p data-bbox="537 1682 1235 1780">ii) Moyer V. Screening for Lung Cancer: U.S. Preventive Services Task Force Recommendation Statement. Ann Intern Med. 2014;160:330-338.</p> <p data-bbox="537 1791 1308 1812"><a href="http://www.uspreventiveservicestaskforce.org/Page/Document/Reco">http://www.uspreventiveservicestaskforce.org/Page/Document/Reco</a></p>

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13	1	<p data-bbox="537 468 829 495">DYNAMIC VUE SW OPTION</p> <p data-bbox="537 518 1256 583">Dynamic VUE. Quantitative review of dynamic PET datasets with time activity curves.</p> <p data-bbox="537 598 1256 877">PET's ability to noninvasively measure the metabolic activity of cells in the human body provides valuable information of the biochemical and biological activity of a living subject. Using this diagnostic tool, clinicians are able to obtain early information on the state of cardiac disease, neurological disorders, and cancer. A program that lets you view a graphic representation of this molecular activity over time would give you key information about the early onset and progression of various disease states.</p> <p data-bbox="537 888 651 915">Overview:</p> <p data-bbox="537 930 1256 1104">Dynamic VUE lets you make optimum use of the information PET and PET/CT scanners provide from dynamic PET scans. With it, you have the ability to quantitatively review Dynamic PET datasets and generate time activity curves and summing images over time.</p> <p data-bbox="537 1115 643 1142">Features:</p> <ul data-bbox="537 1157 1256 1682" style="list-style-type: none"> <li>• Exclude frames with motion artifacts and sum selected frames to review a single high-count images series.</li> <li>• Application of ROIs for cardiac perfusion analysis.</li> <li>• Ability to chart time activity curves between ROIs in each brain hemisphere for comparison.</li> <li>• Sum an entire series over time or one location with a single click.</li> <li>• Reframe a dynamic series to create a new series by summing different time frames.</li> <li>• Draw a freehand ROI on an image and edit its properties.</li> <li>• Create location activity curves for multiple ROIs.</li> <li>• Export curve statistics to a portable format.</li> <li>• Cine images can be displayed at 40 fps.</li> </ul>
14	1	<p data-bbox="537 1724 959 1751">Xtream Injector Interface kit - Class IV</p> <p data-bbox="537 1772 1094 1799">Cabling and CT Scanner software required for use</p>

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15	1	<p>with Integrated Injectors.</p> <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>
16	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>
17	1	<p>PET Annulus Phantom – DQA (Daily Quality Assurance); for Signa PET/MR, Discovery IQ series , Discovery MI, MI-DR</p> <p>PET Annulus Phantom – DQA (Daily Quality Assurance); for Signa PET/MR, Discovery IQ series , Discovery MI, MI-DR</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>
18	1	<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, Discovery MI/MI-DR, Optima 560</p>

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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, Discovery MI/MI-DR, 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>
19	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>
20	1	<p>CT Main Disconnect and UPS Control 380-480V 50 60Hz 110A</p> <p>Main Disconnect Panel (MDP) UL 110A 400/480V 50/60Hz 3 phases for CT, PET and PETCT</p> <p>The (Main Disconnect and UPS Control Panel serves as the main facility power disconnect source installed ahead of the CT system PDU. On systems where the optional partial system UPS is included in the system, the panel provides NEC mandated UPS emergency power-off control function via a UPS control cable included with the UPS. The optimized design PDB saves time, installation labor, and valuable mounting space by consolidating</p>

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		<p>the main circuit breaker, control power source and required warning lights into a compact factory manufactured panel. The panel provides short circuit protection, overload protection and National Electrical Code and Canadian Electrical Code required emergency shutdown for the system. The 24-volt low voltage controls all power, using either the panel cover mounted EMERGENCY OFF push button or the remote EMERGENCY OFF push button included with each system. The PDB is painted to match the imaging system for a total coordinated system appearance. Available in a combination surface\semi-flush mounted enclosure. The system provides stock availability of otherwise special-order devices, saving time and installation costs.</p> <p>Benefits</p> <ul style="list-style-type: none"> <li>• The System Main Disconnect saves time, installation labor, and valuable mounting space by consolidating the main circuit breaker, the feeder overcurrent devices, magnetic contactors and UPS emergency power-off into one compact panel</li> <li>• The system provides stock availability of otherwise special-order devices, saving time and installation costs</li> <li>• Reduces installation time and cost by eliminating delays in obtaining individually enclosed components and by eliminating on site assembly</li> <li>• UPS emergency power-off functions are included for future, partial system UPS addition.</li> <li>• Disconnects system power on first loss of incoming power, preventing damage to system components</li> <li>• Provides a standardized platform for UPS or other future GE engineered modifications or upgrades</li> <li>• Main power disconnect operating handle can be padlocked in the OFF position for servicing safety and OSHA lock out/tag out</li> <li>• The door has provisions for padlocking</li> <li>• Enclosure door is interlocked with ON / OFF disconnect handle to prevent unauthorized access if disconnect is in the ON position</li> </ul> <p>Features</p> <ul style="list-style-type: none"> <li>• Optional partial system UPS provides clean uninterrupted power to the system computer, maintaining system integrity</li> </ul>

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		<p>during power loss while also providing a solution to power quality problems</p> <ul style="list-style-type: none"> <li>• UL, cUL listed, and CE labeled</li> <li>• Supplied with low voltage, cover mounted Push to Stop, Twist to Restore pushbutton and long-life LED pilot lights</li> <li>• Provides overcurrent and short circuit protection with GE GuardEON solid-state circuit breakers</li> <li>• Suitable for use on systems with 25,000A of short circuit current. It is the installer's responsibility to verify that the available short circuit current is 25,000A or less for compliance to all electrical codes</li> <li>• Emergency-off disconnects power to both the PDU and optional partial system UPS output, per National Electric Code</li> <li>• Factory wired and tested</li> <li>• All devices are selected for high reliability and long life</li> <li>• Panel disconnect provides OSHA lockout / tag out provisions Remote EPO</li> <li>• This MDP comes with two normally closed contact blocks attached to the back of the emergency off push button.</li> </ul> <p>Seismic Specifications</p> <ul style="list-style-type: none"> <li>• This Panel has been certified by an independent California structural engineer in conformance with the shake testing requirements of ICC-AC 156. The California OSHPD number is OSP-0457-10.</li> <li>• The seismic performance characteristics are as follows: SDS(g) # 2.56; z/h # 1.0 ; Ip # 1.5</li> </ul> <p>Physical Characteristics</p> <ul style="list-style-type: none"> <li>• Dimensions: Height x Width x Depth: 24 x 16 x 7 inches (610 x 407 x 178 mm)</li> <li>• Handle depth: 2.75 inches (70 mm)</li> <li>• Weight: 46 pounds (21 kg)</li> </ul> <p>Components supplied with each panel</p> <ul style="list-style-type: none"> <li>• The Main Disconnect and UPS Control Panel</li> <li>• An Installation, Operations &amp; Service Manual</li> <li>• (2) sets of Emergency Power Off pushbuttons with 2NC on each EPO</li> </ul>

Item No.	Qty	Description
21	1	<ul style="list-style-type: none"> <li>• Drawings and Electrical Schematics</li> </ul> <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 removal of the patient from the scanner.</li> <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</p>

Item No.	Qty	Description
22	1	<p data-bbox="537 405 1136 506">NOTE: INSTALLATION AND RIGGING IS NOT INCLUDED NOTE: CONTACT GE SERVICE OR EATON FOR START-UP ASSISTANCE</p> <p data-bbox="537 537 1240 604">MEDRAD Stellant D DualFlow ISI-ready on pedestal mount with Certegra Workstation and ISI900G CT communication kit</p> <p data-bbox="537 625 1252 800">GE Healthcare now offers the Medrad Stellant D injector with Certegra workstation. The dual syringe CT injection system is reliable and easy to use. It features saline flush and DualFlow capabilities allowing users to test vein accesses with saline, and prime patient tubing with saline to save contrast.</p> <p data-bbox="537 814 1214 842">Medrad Stellant D CT Injection System users are armed with:</p> <ul data-bbox="537 856 1247 1346" style="list-style-type: none"> <li>• Automation features to help maximize throughput: integrated auto load, auto retract, auto prime and auto syringe sensing</li> <li>• Save up to 250 protocols</li> <li>• Quick, easy install and detachment</li> <li>• Check for air confirmation button and arming on the injector head</li> <li>• Pressure monitor graph and flow profile preview</li> <li>• Up to 6 phases including pause and hold capabilities</li> <li>• Programmable pressure limit</li> <li>• Colour touch screen</li> <li>• Either ceiling counterpoise or pedestal-mount configurations</li> </ul> <p data-bbox="537 1360 1252 1604">Certegra Workstation</p> <p data-bbox="537 1360 1252 1604">From study set-up and preparation to study administration and results management, the Certegra Workstation serves as a workflow-centralized technologist interface to help users enhance efficiencies and patient care, enabling options such as P3T 2.0 (Personalized Patient Protocol) software environment. The benefits of DualFlow (simultaneous injection of contrast and saline)</p> <ul data-bbox="537 1619 1224 1810" style="list-style-type: none"> <li>• Provide more uniform attenuation of the right and left ventricles</li> <li>• Minimize artefacts by achieving proper attenuation levels</li> <li>• Visualize the right coronary arteries and right ventricles in a single study by achieving more uniform attenuation</li> </ul>

Item No.	Qty	Description
		<p data-bbox="537 401 1154 464">MEDRAD Stellant D Certegra injector with Integrated CT Communication</p> <p data-bbox="537 485 1268 688">Designed to save time and increase CT scan throughput, the MEDRAD Stellant D with Certegra Workstation is validated for use with GE's Enhanced Xstream Injector option on selected scanners - enabling CAN Class 4 functionality for seamless communication. The resulting injector and CT scanner integration benefits include:</p> <ul data-bbox="537 709 1263 1136" style="list-style-type: none"> <li>• Reduced overall programming time</li> <li>• Improved scanner and injector protocol matching through programming of the injector from the scanner console</li> <li>• Better control over contrast injection procedure with a synchronized CT scan start time. A single button-press on the scanner starts both the injector and scanner</li> <li>• Preview injection parameters before beginning the scan</li> <li>• Complete post-study reviews of injection results at the scanner console</li> <li>• Automatic documentation of the injection results in PACS System</li> </ul> <p data-bbox="537 1146 979 1171">Pedestal-mount configuration includes:</p> <ul data-bbox="537 1188 1240 1822" style="list-style-type: none"> <li>• Dual injector head on pedestal with integral IV pole</li> <li>• Syringe heat maintainer</li> <li>• Certegra Workstation with USB drive</li> <li>• DualFlow software</li> <li>• ISI-ready software</li> <li>• ISI900G CT communication kit</li> <li>• Base control unit</li> <li>• 22.8 m (75 ft) head extension cable</li> <li>• 7.6m (25 ft) base to display cable</li> <li>• Power cord, North America</li> <li>• Power cord, International</li> <li>• Product information package</li> <li>• Operations manuals</li> <li>• Installation, customer's operational training at time of installation, and one year full on-site warranty in Bayer service</li> </ul>

Item No.	Qty	Description
		<p>countries</p> <p>System Specifications</p> <ul style="list-style-type: none"> <li>• Flow Rate (range &amp; increments): 0.1 to 10 ml/sec in 0.1 ml increments</li> <li>• Volume (range &amp; increments): 1 ml to syringe capacity in 1 ml increments</li> <li>• Programmable Pressure Limit 200 ml syringe: 325 psi, 2241 kPa</li> <li>• Scan delay: 0-300 seconds (5 minutes) in 1 second increments</li> <li>• Pause: 1-900 seconds (15 minutes) in 1 second increments</li> <li>• Hold: maximum HOLD time is 20 minutes</li> <li>• Syringes (volume capacity): 200 ml sterile disposable syringe</li> <li>• Number of phases: 6</li> <li>• Number of protocols: 250</li> <li>• Electrical Requirements (VAC/Hz): 100-240 VAC, 50/60 Hz</li> <li>• Syringe Heat Maintainer Range: 35 °C +/-5, 95 °F +/-9</li> <li>• Dual Injector Head: 15.5 cm (6.1") H x 30.7 cm (12.1") W x 36.8 cm (14.5") D, 8.1 kg (17.0 lb) without syringe</li> <li>• Certegra Workstation (CWS): 34.2 cm (13.5") H x 40.0 cm (15.8") W x 30.0 cm (10.2") D, 8.0 kg (17.6 lb)</li> <li>• Base Unit: 29.2 cm (11.5") H x 27.9 cm (11.0") W x 22.2 cm (8.8") D</li> </ul>
23	1	<p>Patient Arm Support System for Nuclear, PET/CT, MRI</p> <p>Patient Arm Support for NM, PET/CT, MR</p> <p>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</p>
24	1	<p>Discovery PET/CT Advanced Training Package (New PET/CT Users)</p> <p>Discovery PET/CT Training Package (New PET/CT Users)</p> <p>Training designed for users new to PET/CT. Training package</p>

Item No.	Qty	Description
		<p>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, onsite and HQ-based training. Package includes up to 20 days onsite, 2 HQ classes, 16 hours of remote training, and 10 consecutive weeks of Virtual Onsite Trainer (VOT) instruction up to 40 hours.</p> <p>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>NonProducts</b>
26	1	MIM workstation for PET, Quote K112930,

## Options

Item No.	Qty	Description
27	1	CardIQ Xpress Reveal option

Item Qty No.	Description
	<p>CardIQ Xpress Reveal is an integrated post processing image analysis software dedicated for the application of cardiovascular imaging on the Console.</p> <p>The CardIQ Xpress Reveal software option can be used to effectively display, reformat and analyze 2D or 3D cardiac CT images for qualitative or quantitative assessment of heart anatomy and coronary artery vessels from single or multiple cardiac phase image data sets.</p> <p>CardIQ Xpress Reveal is launched via it's own link or from Volume Viewer applications. It provides the user with both single and multiple cardiac phase analysis protocols. The operator has a variety of different 2D, 3D or reformatted protocols to choose from to perform analysis and measurements. They include: display of coronary vessel tree, angiographic view, 2D and 3D rendering of single or multiple coronary artery vessels or grafts, automatic reformation of cross sectional cardiac images into planes along short or long axis of the heart, one-touch cath views for 3D or reformatted images, 3D angiographic view phase registration, plaque density measurements and color mapping of the non-calcified &amp; calcified plaque, IVUS-like views, 3D ejection fraction, 4D aortic and Mitral valve views, relative perfusion, transparency views and beating heart images from single or multiple cardiac phase image data sets. The CardIQ Xpress Reveal tool can be applied to standard axial or helical CT images. These images can be acquired on GE's multi-slice CT scanners using the cardiac CT SnapShot Pulse, Segment, Burst or Burst Plus imaging acquisition option.</p> <p>Clinical Benefits: Cardiovascular CT imaging using multi-slice CT technology is a new and exciting clinical application which may make significant impacts to cardiovascular disease management as</p>

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Item No.	Qty	Description
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a non-invasive imaging technique. Multi-slice detector CT, which has been quickly adopted by the clinical community, has the advantage of being easy-to-use, reliable and accessible, as compared to other invasive or non-invasive cardiac imaging techniques. One of the critical components for an effective cardiac CT application is a fully integrated post processing and analysis tool tailored for cardiac imaging. The CardIQ Xpress Reveal option is designed to provide an easy-to-use and time effective means for cardiovascular image manipulation. Clinical applications include: imaging of cardiac morphology, coronary artery imaging and assessment of relative perfusion, assessment of plaque, bypass graft patency, post intervention follow-up and functional assessment.

CardIQ Xpress Reveal simplifies user workflow by:

- Pre-processing the images & models for quick review of the exam
- Loading images into the auto launch area for real-time review of multiple exams
- Stream-lining protocol selection
- Easy switching from one protocol to the other without exiting the application
- Single click one-touch cath views
- Batch movie output within cardiac reformat
- User defined layouts within vessel analysis for simplified viewing and filming
- Multi-phase load to single phase review

The CardIQ Xpress reveal option allows the user to:

- Extract, render and display 2D/3D coronary vascular tree images with automatic vessel tracking & labeling with single click of a protocol. Images can be reviewed in axial, reformat, curved, oblique MPVR, and cross section views.
- Various measurements of coronary artery

Item Qty No.	Description
	<p>vessels to include stenosis, density and length of stenotic area.</p> <ul style="list-style-type: none"> <li>• PlaQID to color code non-calcified and calcified plaque with volume measurements.</li> <li>• 2D reformat review with predefined views to review all coronary vessels.</li> <li>• Color enhanced relative perfusion defect pattern recognition for detection of ischemic heart disease with 4 color patterns</li> <li>• Automatically render data for streamlined reading to include: 3D rendered heart, angiographic view, tree VR, and ejection fraction.</li> <li>• Reformat standard axial CT images of single or multiple cardiac phases automatically into short, long and two chamber long axis of the heart for easy review.</li> <li>• Perform functional evaluation of the heart and cine capabilities for multiphase beating heart images with one easy click</li> <li>• Automatic extraction of the left ventricle with automatic selection of ES and ED for ejection fraction &amp; volume measurements.</li> <li>• 4D aortic valve and mitral valve views with one touch</li> <li>• Select protocols within the review step area allowing user to select a different protocol without exiting the application.</li> <li>• Pre-defined VR IVUS-like views for virtually determining the different compositions of the plaque</li> <li>• One touch angiographic view protocol display coronary vessel tree and myocardium with automatic removal of heart chambers for cath comparative view.</li> <li>• Heart transparency model allowing for full visualization of coronaries in relations to the</li> </ul>

Item No.	Qty	Description	Ext Sell Price
28	1	<p>heart chambers with the ability to fade out the chambers of the heart.</p> <ul style="list-style-type: none"> <li>• Oblique reformat views in the standard cath angles to provide an easy analysis of the coronary vessels.</li> <li>• Load multi-phase images, review the data and decide which phase or phases will be reviewed for further processing by dropping the non-essential phases.</li> <li>• Phase registration - ability to register images from different cardiac phases into a unique data set. The data set can then be saved as a 3D object and/or used for further analysis.</li> </ul> <p>System Requirements: VolumeViewer on OC - B7870JA</p> <p>Advantage 4D for AW</p> <p>Advantage 4D</p> <p>Requires AW VolumeShare5 or higher, and Advantage 4D hardware.</p> <p>Advantage 4D is a non-invasive software option that can be used to provide and display CT CT images of all phases of a breathing cycle for the evaluation of respiration-induced motion. The software will allow the user to retrospectively define the optimal respiratory phase from an image quality standpoint, and group images by the phase selected.</p> <p>It performs the following functions:</p> <ul style="list-style-type: none"> <li>• Examines the motion profile generated by the vendor devices</li> <li>• Sorts images by the phase of the respiratory cycle. Generates multiple phase series for 2D, 3D and 4D viewing</li> <li>• Automatic (Auto4D mode) or manual processing</li> <li>• Measurement of motion extent</li> </ul>	

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Item Qty No.	Description	Ext Sell Price
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Requires VolumeShare5 or higher, and Advantage  
4D hardware.

All software packages are Non-Transferable to other  
hardware and are Non-Returnable.