

REQUESTING SERVICE: NUCLEAR MEDICINE(115)
 DEL. TO : CAROLINA WHSE
 SHIP TO: SAN JUAN WHSE FC7019
 V.A. Medical center
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Item No.	Qty	Description
	1	
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. The Discovery MI 4ring consists of an integrated gantry containing:</p> <ul style="list-style-type: none"> o anRevolution Evo CT o new SiPM based PET detector composed of 4 PET rings o a scalable PET iterative reconstruction system

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	<ul style="list-style-type: none"> o a Discovery MI operator console featuring in standard, the following advanced workflow solutions: RadRx patient study prescription; Q.Check o PET data Quantitative integrity check. o a patient imaging table with one head holder, patient security straps and comfort accessories. <p>Quantitative Imaging</p> <ul style="list-style-type: none"> o Q.Temp – Individual temperature sensor and gain adjustment technique 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. o Q.Prepare <p>Prospective Reconstruction</p> <ul style="list-style-type: none"> o VUE Point HD utilizes a fully 3D iterative reconstruction technique with all corrections within the loop, enhanced resolution with detector geometry modeling, model-based 3D scatter correction inside and scatter estimation outside the field of view, exclusive randoms corrections based on singles and dead-time correction with pile-up estimates providing high image quality and patient throughput. o 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

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	<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>

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	<ul style="list-style-type: none"> 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. o Silent design of Revolution EVO gantry allows significant reduction of audible noise compared with previous GE technology. a IQ Enhance (IQE) reconstruction reduces helical Artifact Index in thin slice helical scanning. 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. a Adaptive Enhance Level Adjustment (AELA) may improve visual spatial resolution while maintaining pixel noise standard deviation and artifact. o Organ Dose Modulation provides reduction of radiation dose via X-ray tube current modulation for superficial tissues, such as breasts. o AutomA/SmartmA* modulates X-ray tube mA to account for specific patient anatomy based upon data gathered from the scout image. 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. o One stop scanning mode that provides a streamlined workflow

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	<p>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.</p> <p>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).</p> <p>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 dose (CTDIvol and DLP) for the patient by the hospital radiation tracking system/RIS/HIS.</p> <p>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</p>

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	<p>560, 5mA increments Reconstruction Algorithms: Soft Tissue, Standard, Detail, Chest, Bone, Bone Plus, Lung, Ultra, Edge, Edge Plus</p> <p>o Scan Mode: Axial & 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).</p> <p>o Selectable kV: 80, 100, 120, 140 Selectable mA: 10 to 560, 5mA increments Scan Plane</p> <p>o Reconstruction Algorithms: Soft Tissue, Standard, Detail, Chest, Bone, Bone Plus, Lung, Ultra, Edge, Edge Plus Image Quality 0.28mm high resolution</p> <p>PET/CT Operators Console</p> <p>o Fully integrated PET and CT user interface</p> <p>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.</p> <p>a 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</p>

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	<p>capabilities such as SUV.</p> <ul style="list-style-type: none"> 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 ImageWorks™ provides instant access to advanced image processing features such as CT Perfusion 4, Advanced Vessel Analysis, CardIQ Xpress Pro or Plus, AutoBone and DentoScan <p>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 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>

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		<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"> o P5051SK SharpIR <p>Q.Clear upgrade for Discovery 710 products</p> <p>Pre-requisites:</p> <ul style="list-style-type: none"> o P5051SK SharpIR o P5051NL Q.Core + 1 o P5051NN Q.Core + 2 <p>Q.Clear Upgrade for Discovery 610 products</p> <p>Pre-requisites:</p> <ul style="list-style-type: none"> o P5051SK SharpIR o P5051NL Q.Core + 1
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. MAR offers:</p> <ul style="list-style-type: none"> • Exceptional image quality. MAR is

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	<p>based on the latest in GE Healthcare smart technology, which uses a novel three-step, sinogram-based iterative algorithm.</p> <ul style="list-style-type: none"> • Streamlined workflow. MAR requires only one scan, making the process of obtaining a corrected image fast and efficient. • Dose conscious. MAR requires only one acquisition. • Patient comfort. The efficient, single-scan process helps to reduce patient time inside the scanner. • Versatility. MAR is designed to enhance clarity across a range of images including scans of hip implants, dental fillings, screws and other metal objects.
5 1	<p>ASiR to ASiR-V* Upgrade</p> <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"> • ASiR-V reduces dose by up to 82% relative to FBP at the same image quality (1) • ASiR-V improves low contrast detectability by 59% to 135% at the same dose (2) • ASiR-V reduces image noise up to 91% at the same dose (2)

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	<p>•ASiR-V improves spatial resolution up to 2X (107%) at same image noise (2)</p> <p>•ASiR-V image reconstruction has the capability to reduce low signal artifact such as streak artifact compared to FBP</p> <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 made using the MITA CT IQ Phantom (CCT183, The Phantom Laboratory), using model observer method.</p>
6 1	<p>Q.Prepare option</p> <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>

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		<p>Q.Prepare offers the following functions:</p> <ul style="list-style-type: none"> • Ability to view parameters of prior exams • Compare prior parameters to current exams • Ability to pre-enter study information
7	1	<p>PET Gating option</p> <p>PET Gating acquisition option for Discovery products. Enables PET respiratory gating scan functionality.</p>
8	1	<p>Motion Match option</p> <p>Motion Match</p> <p>Acquires and views fused gated PET and CT images on the console. These tools find applications in: PET and CT respiratory and cardiac capability for motion analysis. PET and CT dynamic imaging for compartmental PET data model analysis and retrospective CT gating.</p> <p>PET attenuation correction from CT diagnostic data, including dynamic and gated CT techniques for motion management.</p>
9	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>

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	<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>

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		<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>
10	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's full convergence iterative reconstruction for advanced acquisition protocol such as cardiac dynamic or respiratory gating. Q.COREPower+ upgrade will allow Discovery MI DR ES user to access</p> <ul style="list-style-type: none"> • MotionMatch's 4D PET/CT imaging • Q.Freeze's imaging <p>Pre-requisite: Q.COREPower</p>

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		‡ option
11	1	COLUMBIA LONG LENGTH CABL COLUMBIA LONG LENGTH CABL
12	1	Long length Chiller Cooling Hose Line 100ft Long Length Chiller cooling hose line. Recommended for chiller in equipment room siting layouts.
13	1	<p>Low Dose 5-Beat Cardiac with SnapShot Freeze and SnapShot Assist</p> <p>The Low Dose 5-Beat Cardiac with SnapShot Freeze and SnapShot Assist 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. This package contains the following items necessary for CT Coronary Angiography:</p> <ul style="list-style-type: none"> - SmartScore acquisition (B7850PL) - SmartScore analysis (B79971JH) - ECG trace on the operator console (B7864KC) - Cardiac Enhance filter (B7864KD) - CardIQ Snapshot (B7710Ls) - SnapShot Pulse (B7864AA) - SnapShot Assist (B7877FB) - SnapShot Freeze (B7877FA) <p>ECG monitor, CardIQ Xpress Reveal 2.0 and AW are NOT provided with this package.</p> <p>The SnapShot Freeze motion correction package includes a</p>

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	<p>comprehensive solution to correct for the problems of motion that may occur in cardiac imaging.</p> <p>SnapShot Freeze:</p> <p>An intelligent motion correction algorithm, which is designed to reduce blurring of coronary arteries due to motion artifacts. Characterizing the vessels' motion path and velocity from adjacent cardiac phases on a vessel-by-vessel and segment-by segment basis does this. This information is then used to calculate the coronary artery vessel position at the target phase. Utilization of SnapShot Freeze in clinical practice may assist the physician's diagnostic interpretability of coronary CTA by reducing the burden of non-diagnostic segments.</p> <p>Using a mechanical heart phantom it was shown that SnapShot Freeze reduces motion artifacts up to 6X, equivalent to a 0.058s equivalent gantry rotation speed with effective temporal resolution of 29ms*.</p> <p>SnapShot Pulse</p> <ul style="list-style-type: none"> 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

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	<p>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).</p> <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 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"> 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. o SnapShot imaging option allows users to acquire cardiac images of patients using the following cardiac imaging techniques: <ul style="list-style-type: none"> (1) Retrospectively EKG-gated helical scanning method - SnapShot: primarily used for cardiac morphology imaging, with this technique, cardiac images of single

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	<p>or multiple cardiac phases at any given Z-axis location can be acquired and generated.</p> <p>(2) EKG-gated Multi-slice CINE Scan mode: used primarily for coronary artery calcification scoring (CACS) studies or for cardiac morphology Imaging.</p> <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"> 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 scan. SnapShot Assist generates a cardiac scan parameter recommendation using the patient's ECG analysis and user defined protocol selection algorithm. <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,</p>

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	padding, and pitch. User Profiles define scan parameters within the heart rate and variability categories for a specific patient group and cardiac scan mode.
	ECG Trace
	The ECG trace provided by the ECG monitor will be displayed on the operator's console with this option. ECG Editor:
	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.
	Cardiac Enhance:
	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 performance.
	ECG Dose Modulation:

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14 1	<p>ECG gated dose modulation reduces patient dose by modulating x-ray technique during acquisition based on heart phase.</p> <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"> - PET Cardiac Gating capability (P5051LH) - Cardiac PET ACQC (P5051LE) - Cardiac VUE (P5051LV) <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>
15 1	<p>2M Scan Ronge 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</p>

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		extender and specific acquisition protocols.
16	1	Rear Lasers / Gantry Display Rear Gantry Control Panels, Rear Cover Display and Rear Laser Landmark for Discovery MI PET/CT scanner.
17	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 (RIS) Information System. ConnectPro Simplifies and Eliminates Errors in Patient Data Entry.
18	1	PET Adjustable Desk Adjustable Desk for PET/CT console.
19	1	Chair Chair for CT scanner
20	1	CT Service Cabinet Service cabinet for system accessories storage
21	1	Cabling for RPM unit to Gantry RPM CABLE: cable for connecting CT and RPM
22	1	DIACOR RTP Flat Tabletop for CT and PET/CT Systems - RT16, DVCT, Disc 600/690, HD750 and VCT DIACOR RTP Flat Tabletop for CT and PET/CT Systems- RT16, DVCT,

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	<p>Discovery PET/CT 600, 610, 690, 710, HD750, and VCT</p> <p>Diacor Radiation Therapy Planning Overlay For GE Healthcare Global Tables, Model 1700, 2000 and PET/CT</p> <p>The Radiation Therapy Planning Overlay, or "CT Overlay", provides a secure flat surface for CT Simulation applications, consistent with the treatment couch, for accurate and reproducible patient positioning.</p> <p>FEATURES/BENEFITS</p> <ul style="list-style-type: none"> o Carbon fiber construction with foam core provides durable, light-weight device with outstanding imaging properties o Varian Exact Technology and Indexing Immobilization Patient Positioning system along entire length of the overlay o Designed specifically for GE Healthcare's Global Table o Easily locks and unlocks from the CT Table, providing easy transition between therapy and diagnostic procedures <p>INCLUDED:</p> <ul style="list-style-type: none"> o Carbon Fiber CT Overlay with locking accessories o Two Varian Exact Couch Indexing Bars o One Varian Respiratory Gating Interface Plate and associated mounting hardware <p>SPECIFICATIONS:</p> <p>Weight: 30 lbs. (13.61 kg) Length: 85.25 in. (217.17 cm) Width: 20.87 in. (53.0 cm) Height: 1.62 in. (4.12 cm)</p>

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23	1	<p>Varian RPM Respiratory Gating Device, GEHC installed</p> <p>Varian RPM with install</p>
24	1	<p>Varian RPM Mount for PET Global Table</p> <p>RPM Mount for GT For PET/CT Only</p>
25	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"> • Recommended for accurate calibration of your PET detector and easier quality control • Designed to be held in place during use by standard source holders provided with scanning equipment • No mechanical maintenance is required
26	1	<p>VQC Phantom for Volumetric Registration</p> <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, Optimo 560</p>
27	1	<p>PET Annulus Phantom Shield Container - DQA Safe</p>

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28	1	<p>Wheels feature swivel casters 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> <p>110 Amp Main Disconnect Panel for CT (INTL)</p> <p>110 Amp Main Disconnect Panel for CT (INTL)</p> <p>This 110 amp main disconnect panel for GEHC CT systems provides emergency shut down, undervoltage protection, overcurrent protection, OSHA lockout tag provisions, and serves as a 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</p>

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		<p>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 for arranging for installation by a licensed electrician. ITEM IS NON-RETURNABLE AND NON REFUNDABLE. Warranty Code: Y</p>
29	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, 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,</p>

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	<p>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> <p>o Impedance Measurement: Measures Impedance between the patient's skin and each individual ECG electrode</p> <p>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</p> <p>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</p> <p>o Polarity lock helps reduce the number of false triggers when tall T waves or deep S waves occur</p> <p>o Color trigger mark indicates timing of each trigger pulse with respect to the</p>

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30	1	<p>ECG</p> <ul style="list-style-type: none"> o System interlock function indicates proper connection with the imaging device o Integrated USB Drive - allows user to store and retrieve ECG events for retrospective analysis o Auto-notch selects the correct ECG notch filter. This reduces interference on the ECG signal <p>The Kit includes:</p> <p>Cardiac Trigger Manitar; set of 4 RT lead wires - 30 in, low noise patient cable - lead, Ethernet Internet cables, ECG adult electrode (box of 40), card-set hospital grade (12ft), NuPrep Gel, USB Memory Stick, Recorder Paper, Roll Stand for 7000 series and IPC cable.</p> <p>2 TB USB EXT HARD DRIVE</p> <p>2 TB USB External Hord 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 ond interface with GE Healthcare Global Operator Consoles via USB 3.0 interface that provides up to 10 times</p>

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		faster data transfer rates compared to USB 2.0 interfaces.
		USB 3.0 is backward compatible with USB 2.0
31	1	Standard sce pack L3 W
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	1	TiP PET Applications
32	1	6 Day PET TiP Onsite System Training
		6 Day PET TiP Onsite System Training
		PET Onsite Training for a new PET system
		<ul style="list-style-type: none"> • 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.
		<p>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.</p> <p>The 2 day revisit is suggested after the staff has run the system for 6-8 weeks, however this is flexible based</p>

Item Qty No.	Description
33 1	<p>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.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p> <p>6 Day CT TiP Onsite System Training</p> <p>6 Day CT TiP Onsite System Training</p> <p>CT Onsite Training for a new CT system</p> <ul style="list-style-type: none"> • 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. <p>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</p>

Item No.	Qty	Description
		<p>procedures.</p> <p>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.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>
34	1	<p>2 Days PET TiP Onsite Training</p> <p>2 Days PET TiP Onsite Training</p> <p>Two Day PET Onsite Training provided from 8AM to 5PM, Monday through Friday. Includes T&L expenses. Days provided consecutively.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>
35	1	<p>2 Days CT TiP Onsite Training</p> <p>2 Days CT TiP Onsite Training</p> <p>Two Day CT Onsite Training provided from 8AM to 5PM, Monday through Friday. Includes T&L expenses. Days provided consecutively.</p>

Item Qty No.	Description
1	<p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>
36 1	<p>POWER QUALITY</p> <p>150 KVA UPS Bypass Panel (Use With E4502FD)</p> <p>150 KVA UPS Bypass Panel (Use With E4502FD/ E4505MB)</p> <p>FEATURES/BENEFITS</p> <ul style="list-style-type: none"> • The 150 kVA UPS Bypass Panel feeds power to the GE Digital Energy 150 kVA UPS in the normal mode and enables an imaging system to operate when the UPS is in the manual bypass mode for routine servicing of the UPS or in the event of UPS failure • The UPS input and output breakers provide branch overcurrent protection, a disconnection means and OSHA lockout/tagout provisions • The bypass breaker includes a control contact which interfaces with the UPS to switch into static bypass • Each circuit breaker is permanently identified by function for ease of operation • Reduces installation time and cost by providing a pre-designed and tested system eliminating the need to mount and wire a number of

Item Qty No.	Description
	<p>individual components</p> <ul style="list-style-type: none"> Standardized design and testing assures high product quality and system reliability <p>SPECIFICATIONS</p> <ul style="list-style-type: none"> Dimensions (H x W x D): 65.87" x 31" x 11.5" Weight: 350 lbs. Mounting: Four 0.5" square mounting holes provided <p>COMPATIBILITY</p> <ul style="list-style-type: none"> Use with GE Digital Energy 150 KVA UPS (E4502FD)
37 1	<p>GE Digital Energy Signature 5000 Series 150 KVA UPS for X-Ray, MR450 and MR750 Systems</p> <p>GE Digital Energy 5000 Series 150 KVA - X-Ray, MR450, MR750 Systems</p> <p>The GE Digital Energy SG Series is one of the best performing and most reliable three-phase UPS systems providing critical power protection for medical imaging systems. The SG Series UPS was developed using GE's Design for Six Sigma methodology ensuring that the product fully meets customer requirements and</p>

Item Qty No.	Description
	<p>expectations. It produces extremely low output voltage distortion during step loads from 0-100% thus making it ideal for diagnostic imaging systems. Its superior performance enables GE to correctly size the UPS for the application resulting in significant savings in initial and life cycle costs compared to other systems.</p> <p>FEATURES/BENEFITS</p> <ul style="list-style-type: none"> o The use of uninterruptible power enables the system imaging to be completed after the loss of supply power, and allows for saving of valuable data and orderly system shutdown o This 3 Phase, Online Double Conversion UPS eliminates all power anomalies such as noise, transients, over-voltage, and under-voltage, which could damage the imaging system's sensitive computer components o Improves imaging system reliability, reduces service costs, and increases

Item Qty No.	Description
	<p>system</p> <p>uptime</p> <p>o Superior UPS technologies include:</p> <ul style="list-style-type: none"> - Superior dynamic load handling capability <p>offers you a cost-effective solution with</p> <p>reduced lifecycle costs and a reduced footprint</p> <ul style="list-style-type: none"> - Extremely low output voltage distortion <p>reduces the need for over-sizing the UPS (up to 14% smaller footprint)</p> <ul style="list-style-type: none"> - Space vector modulation resulting in <p>faster response and higher efficiency</p> <ul style="list-style-type: none"> - Output isolation transformer separates <p>the utility power from the load providing</p> <p>greater critical power protection</p> <ul style="list-style-type: none"> - Superior battery management enhances the <p>life of the battery and reduces operational costs</p> <ul style="list-style-type: none"> - Input 5th harmonic filter reduces the <p>input distortion to less than 7%.</p> <p>o Recommended with 150 KVA Bypass Panel (E4504CH), sold separately</p> <p>SPECIFICATIONS</p>

Item No.	Qty	Description
		<ul style="list-style-type: none"> o Dimensions (H x W): 71" x 47.25" o Weight: 2161 lbs. o Voltage: 480VAC, 3 phase, 4 wire + ground o Frequency: 60 Hz <p>COMPATIBILITY</p> <ul style="list-style-type: none"> o X-Ray Systems, Cath Lab, MR450 1.5T and MR750 3.0T <p>NOTES:</p> <ul style="list-style-type: none"> o Customer is responsible for rigging and arranging for installation with a certified electrician o ITEM IS NON-RETURNABLE AND NON-REFUNDABLE
	1	NUCLEAR PET FI ACCESSORIES
38	1	<p>LAP Darado 3 Red Laser CARINAsim - Wall Mounted</p> <p>Darado 3, Wall Mounted with RED laser and CARINAsim Software</p> <ul style="list-style-type: none"> • One overhead ceiling mounted moving laser to project the sagittal plane (X-axis) and one fixed laser for the transverse line (Y-axis) • Two wall mounted lateral lasers each with a vertically movable laser to produce the horizontal (Za axis and Zb axis) and one fixed laser each for the transverse line (Y-axis)

Item No.	Qty	Description
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Laser Specifications per Laser Rail:

- One Fixed Transverse Red Laser Diode
- Class II Laser
- 635nm
- Output Power: Less than or equal to 1mw
- One Moving Coronal Horizontal Red Laser Diode
- Class II Laser
- 635nm
- Output Power: Less than or equal to 1mw

Moving System Specifications

- Dual Feedback Absolute Distance Linear Encoder System
- Auto Calibration
- Total Travel: 600mm
- Moving Speed: Less than or equal to 200mm/s
- Manually Selectable: 0.2-180mm/s
- Projection Precision of the Traveling Unit with Laser: plus or minus 0.25mm

Physical Dimensions

- 3 Identical Rails DIM: 1392x184x165mm
- Weight: 26kg
- Material: Aluminum

Electrical Specifications

- Power Supply: 100-240VAC,

Item No.	Qty	Description
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50-60Hz

- Power Consumption: 60VA
- Fuses: 250VAC 2xT2AL
- Data Interface: RS485

Accessories:

- Two RS485 15m Laser Control Cables
- Three US power Cables
- Wilke Laser Alignment Phantom with Leveling Plate
- Installation Kit
- Operators Manual

CARINAsim Computer Hardware and Software

- All in One Touchscreen Medical Grade PC Computer System running Windows 7 64-Bit
- Ceiling Mounted Articulating Mounting Arm
- Full Featured CARINAsim Software
- 3D Visualization
- Full Database Functionality
- Full Beam Data
- Data Transfer via DICOM RT
- Ethernet Isolator
- 75' RS485 Computer Data Cable
- RS485 - RS232 Adapter
- Medical Grade Power Supply

Installation and Training

- Telephone and Email Pre Installation Support
- Onsite Mechanical Install

Item No.	Qty	Description
		<ul style="list-style-type: none"> • Fine Alignment • Operator and Physics QA Training
39	1	<p>LAP Laser Wall Mount Monitor for use with CARINAsim only.</p> <p>LAP Laser Wall Mount Monitor for use with CARINAsim only.</p>
40	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>
	1	CT Accessories
41	1	<p>Slicker Cushion for PET GT Table</p> <p>Slicker Cushion for PET GT Table</p> <p>Slicker for PET Discovery VCT, Discovery PET/CT 610, 690, and 710</p> <p>Slicker Cushion Table Systems are comprised of cushion pods 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</p>

Item Qty No.	Description
1	<p>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.</p> <p>FEATURES/BENEFITS</p> <ul style="list-style-type: none"> o Built using heavy, clear, micro motte 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 bleoch solutions. <p>SPECIFICATIONS</p> <ul style="list-style-type: none"> • Dimensions: 110.5" L x 18" W x 1" Thick (with 6" flap an each side)
42 1	<p>AW Server 3x2</p> <p>AW Server 3.2 Ext 1 XL</p> <p>AW Server 3.2 Ext 1 XL</p> <p>The AW Server delivers distributed 3D visualization capabilities throughout the enterprise and at any remote reading locotion. It utilizes state-of-the-art thin client technology to convert virtually any PC to a high-end 3D post processing station. In addition to this, it serves as a workflow engine enabling optimal collaboration among physicians and allows 3D visuolization to be leveraged eosily to diagnose diseases quickly and make sound decisions. The AW Server also</p>

Item Qty No.	Description
	<p>enables faster turnaround of post-processed results to referring physicians by allowing them to access the data instantly, while maintaining security and privacy of patient data.</p> <p>The AW Server includes a vendor neutral OpenAPI PACS integration interface that enables launching the AW Server client from a variety of PACS software, both GE Healthcare provided and 3rd party. This capability supports passing the patient context to the client and even the application desired to be launched, so that time is saved and applications can be launched directly into the most relevant layout. This functionality may require work on the part of the PACS workstation or third party software provider.</p> <p>The following capabilities are included in this catalog:</p> <ul style="list-style-type: none"> • AW Server client software which may be deployed to an unlimited number of systems by simply downloading the client application from the AW Server's web interface. • Support for 50 concurrent users of 2D tools of which 6 may run 3D advanced applications • Up to 80,000 concurrent (equivalent to 512x512 CT) slices shared between users • 6 concurrent Volume Viewer licenses

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Description

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- Support for additional VolumeShare 7 based advanced applications which require separate purchased license(s)
 - Support for multiple instances of GSI Viewer (requires optional license purchase, limited by available slices).
 - Accessories for mounting hardware in your data center rack. Please refer to AW Server site requirements document for details on rack space needed.

Key features:

- Access to 3D visualization capabilities including MIP/MPR/VR, segmentation, fly through and PET/CT
- "Smart Compression" technology automatically displays full fidelity static images even when compression is turned on for increased interactivity. This allows for full fidelity static images even at low bandwidth. On-image visual indicators notify user when compression is in effect.
- Intuitive work list interface with custom work lists, easy access to priors and exam states.
- Programmable ability to automatically push saved results to a DICOM host such as PACS when closing a session.

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- Optional pre-processing capability to automatically process exams in background based on preset rules, minimizing wait time and keeping exams ready to read.
- Ability to open up to 3 simultaneous application sessions per active user and instantly switch between these sessions.
- Ability to save the state of post processing any time and restore it from any client, allowing multiple radiologists or technologists to contribute to post processing results.
- Ability to float application licenses between AW workstations (requires VolumeShore 2 or later) and one or more AW Server(s)
- Enterprise directory integration for single sign on user authentication with audit trails.
- Open API for PACS integration

Performance and intended uses:

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

Item Qty No.	Description
	<p>between client PC and server. A minimum of 3Mbps bandwidth is required.</p> <p>The server supports various compression levels selectable by user. The "Smart Compression" technology applies selected compression level only when user is interacting with the images to optimize performance. The images are automatically displayed at full fidelity once interaction stops. Clear visual indication on the images indicates any time compression is being applied to the images. A minimum of 3Mbps bandwidth per client with latency less than 35ms is recommended for reasonable performance when compression is used.</p> <p>Specifications:</p> <p>AW Server software is packaged as a turnkey solution that includes off-the shelf enterprise class hardware for optimal performance.</p> <p>Server Hardware and O/S:</p> <ul style="list-style-type: none"> • 4 eight-core Intel Xeon E5 4617 CPU's. • 256GB RAM. • Mirrored 146GB disk for OS. • 1 Gbps NIC for DICOM and client traffic. • Dedicoted Embedded Lights Out Manager (LOM). • Fully redundant power and cooling.

Item Qty No.	Description
	<ul style="list-style-type: none"> • Rack-mount (4U) server. • Operating System: GE HELIOS 6.6 • 6TB of direct attached image storage. <p>Client PC requirements:</p> <p>It is the customer's responsibility to make sure every client PC meets these minimum specifications for optimal performance.</p> <p>Hardware:</p> <ul style="list-style-type: none"> • Processor: 2.2 GHz Pentium 4 minimum (or equivalent); Dual core processors recommended. • Memory: 1024 MB minimum. • Disk drive: 250MB free space available. • Screen resolution 1024H x 768V minimum with full color (32 bit) (1280H x 1024V or more recommended). Symmetric dual monitors up to a total of 6 MP are supported with 4 MP recommended for optimal performance • Network card 100 Mbps minimum (1000 Mbps recommended). • Internet connection. Customer provided IPSEC VPN, for internet/WAN operation. • Mouse: Two or three-button mouse. Three button mouse suggested for best use of functions. <p>Software:</p>

Item No.	Qty	Description
		<ul style="list-style-type: none"> • Windows 7 SP1 32 and 64 bit • Windows 8.1 32 and 64 bit • Mac Parallels (Mac OS X 10.10, Parallels 10, Windows 7 SP1 32/64 bit, Windows 8.1 32/64 bit) <p>Installation Includes:</p> <ul style="list-style-type: none"> • Site readiness survey • Installation of Enterprise OS. • Installation of GE Healthcare applications software. • Configuration of active directory (if required). • Configuration of up to 5 DICOM hosts provided prior to installation. • Installation of one client for purposes of server testing and applications training. <p>Service contract and applications training are optionally purchasable. Warranty information can be found in terms and conditions.</p> <p>Concurrent licenses for supported advanced applications are optionally purchasable.</p>
43	1	<p>PACS 3rd Party Integration</p> <p>PACS 3rd Party Integration</p>
44	1	<p>Standalone Installation Set</p> <p>Standalone Installation Set</p>
45	1	<p>Integrated Registration</p> <p>Integrated Registration - Full Fusion</p>

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Description

Package

Integrated Registration will be
delivered on AW

VolumeShare 7 or AW Server 3.2

Integrated Registration is designed to
provide easy comparison of three
dimensional (3D) anatomical images
from

Computed Tomography (CT), MRI
(Magnetic Resonance Imaging), PET
(Positron Emission Tomography),
Single

Photon Emission Computed
Tomography
(SPECT) and X-Ray Angiography (XA)*.

It allows registration and fusion
between
two volumetric acquisitions, which
come
from either the same or from
different
acquisition modalities.

Major features and enhancements
are:

- o Ability to combine any two of the 5
modalities together.
- o Automatic propagation of
registration
across series acquired in the same
patient
exam (i.e. some frame of reference)
and
to any series from any loaded
exam that

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Description

have been manually grouped together.

- o Full compatibility of the 3 different registration methods: automatic, manual and landmark that can be combined together to provide an optimal result.
- o 2D, 3D and hybrid 2D/3D Fusion capabilities.
- o Access to Volume Viewer** functionalities including MPR, Slab and oblique reformations, triple oblique easy definition, Volume Rendering, 3D display, distance and ROI measurements.
(The ROI measurement only work on the rigid registered images, not on the non rigid registered images), layout management, segmentations, film and save.
- o Ability to save registered data as new DICOM series or as Registered DICOM object (except from SPECT saving which is currently a limitation).
- o Ability to draw and save contours

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as
RTSS DICOM objects.

Summary of operation:

- o User loads DICOM 3 CT, MR, PET, SPECT and/or XA data into an Integrated Registration protocol.
- o Registration is performed based on reference and moving series selection.
- o User reviews the quality of the registration with visualization tools and validates results.
- o Optional: user defines and saves the contours of structures of interest.
- o Registration results are saved.

* For XA modality series, Integrated Registration currently supports only the 3D X Ray Angiography (i.e., 3D X-Ray Angiography images stored as CT Image Storage DICOM objects) images acquired with GE Innova equipment and reconstructed with the Innova3DXR application.

46 1

Advantage 4D v.2 Single Floating License
Advantage 4D v.2 Single Floating License for

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Description

AW Server
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. It performs the following functions:

- o Examines the motion profile generated by the vendor devices
- o Sorts images by the phase of the respiratory cycle. Generates multiple phase series for 2D, 3D and 4D viewing
- o Automatic (Auto4D mode) or manual processing
- o Measurement of motion extent

Requires AW Server and Advantage 4D hardware.

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

Item No.	Qty	Description	
47	1	<p>AdvantageSIM MD9 Full Single Floating License</p> <p>AdvantageSIM MD9 Full Single Floating License for AW Server 3.2</p> <p>Package includes one (1) Single Floating License for use on AW Server of each of the following options:</p> <ul style="list-style-type: none"> o AdvantageSim MD with Multi Modality/Multi Phase planning o CT Atlas-based Segmentation & Automated Replanning o MR Pelvis Organ Segmentation <p>Key functionality in the AdvantageSIM MD Full offering includes:</p> <ul style="list-style-type: none"> o Isocenter placement with laser marking interface (LAP and Gammex) o 3D visualization with correlated axial, sagittal, and coronal views o Manual contouring tools including freehand, point-to-point and paintbrush o Image guided tools to speed manual contouring including live-wire and adaptive paintbrush o Beam setup and placement with target 	

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conformation via blocks or MLC

- o DRR display with Mixing and Blending
- a Support for multiple simultaneous datasets including CT, MR and PET
- o Diagnostic quality PET display
- o 4D CT and PET display including fused
- 4D view
- a 4D movie containing
- a SUV based PET tumor auto segmentation
- o CT-atlas based contouring and re-planning
- o MR-based organ segmentation in the pelvis
- a AdvantageSIM MD with Multi-Modality/Multi Phase Planning

Use AdvantageSim MD virtual simulation to prepare geometric and anatomical data for proposed external radiation therapy before or after dosimetry planning.

The program allows you to interactively optimize field coverage in a non-dosimetric environment.

The anatomical structures and geometric fields that you define are displayed on

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transverse
images, on reformatted sagittal,
coronal, or
oblique images, on 3D views created
from these
images, or in a beam's eye view
display with or
without the display of defined
structures, and
with or without the display of digitally
reconstructed radiograph.

With AdvantageSim MD, you are able
to
visualize volumes and field
geometries for rapid
plan preparation including:

- o Select multi-image views from 3D,
transverse, sagittal, coronal, oblique
planes, or BEV
- o Define structures from axial,
sagittal and
coronal planes
- o Define beam placement and beam
dimensions including MLC and
blocks
- o Display a beam's eye view of
contoured
volumes
- o Display DRR's
- o Employ a variety of distance
measurement tools
- o Employ a variety of annotation
tools

AdvantageSim MD lets you load and

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display
multiple previously registered CT, MR,
and PET
data sets for improved flexibility. You
can defi
cantours in ony modality and
orthogonal plane.
Resulting Radiation Therapy
Structure Sets
(RTSS) reference the primary
simulation CT.
Optionally you may specify that the
RTSS
reference all image data used during
the
simulation session in addition to the
primary CT
4D Respiratory Image and Simulation
Review 4D CT and 4D PET data
acquired with a
GE PET/CT system to analyze and
characterize
respiration-induced motion. This
feature allows
you to derive clinically relevant
information on
the true shape of onatomy in motion,
reducing
structural distortian and allowing you
to identi
the dynamic range af motion. From
this data you
are able to assess the impact of
motian and
verify treatment parameters, making

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tumor
irradiation more precise and sparing
healthy
tissue.

The new 4D workflow enhancements
further
streamline planning with respiratory
gated CT
and PET/CT thus help speed up
planning in 4D.

The following tools help facilitate
motion
assessment and contouring for 4D
gated treatment
planning:

- o Creating 4D MIP, Ave-IP and Min-IP
datasets on-the-fly
- o Saving 4D MIP, Ave-IP and Min-IP
datasets and exporting to 3rd party
planning systems
- o Movie-loop a desired range of 4D
CT
and/or 4D PET phases

CT Based Automated Contouring

A selection of automated and
semi-automated
CT-based segmentation tools is
available that
segments organs at risk including:

- o Body
- o Lungs
- o Spinal Cord
- o Liver

Item No.	Qty	Description
		<ul style="list-style-type: none"> a Kidneys o Spleen o Eyes - Orbits, lenses, optic nerves, and chiasm <p>CT Atlas-based Segmentation & Replanning</p> <p>CT atlas-based contouring provides fully automated contouring of organs at risk for brain head and neck, thoracic (male and female) and pelvic (male and female) organs when advanced radiation therapy techniques require precise contouring of multiple avoidance structures. The atlases are clinically validated to ensure superior accuracy and include 33 H&N structures, 16 thorax structures, and 10 pelvis structures.</p> <p>The contouring results, in form DICOM RT Structure Sets (RTSS), can be exported to 3rd party planning systems that support RTSS.</p> <p>Benefits of automated contouring include helping to speed up time consuming manual</p>

Item No.	Qty	Description
		<p>contouring of organs at risk and to help improve contouring consistency (i.e. to reduce inter operator variability between cantours). The aut segmentation prrocessing completes, on average, in less than 2 minutes.</p> <p>Adaptive CT atlas-based re-planning uses the initial planning CT and Structures and isocenter to apply deformable fusion and proprietary algorithms to adapt the initial plan to the follow up CT to account for weight loss and other anatomical changes during the course of treatment. This can significantly decrease time needed to update a treatment plan upon a follow-up CT simulation.</p> <p>MR Pelvis Organ Sigmentation</p> <p>A suite of semi-autamated, MR-based pelvic argon segmentation contouring tools allowing complex structures to be generated around organs at risk and overlaid on the co-registered</p>

Item No.	Qty	Description
		<p>CT planning image. Segmentation performs optimally on high resolution, high soft tissue contrast T2 weighted MR images.</p> <p>Currently supported anatomy includes the following structures:</p> <ul style="list-style-type: none"> o Prostate o Bladder o Femoral Heads o Rectum <p>Data Export (DECOM-RT)</p> <p>Data created during the use of AdvantageSim MD can be exported to treatment planning systems, Record & Verify systems, and PACS via DICOM and DICOM RT including:</p> <ul style="list-style-type: none"> o Images o Structures o Plans (beam geometry, isocenter, MLC, blocks) o DRR's
48	1	<p>CardIQ Function Xpress</p> <p>CardIQ Function Xpress is an Integrated post processing image analysis software for</p>

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Cardiovascular CT on GE's Advantage Workstation and AW Server.

CardIQ Function Xpress allows users to

Non-Invasively Image the Functional Parameters

of the Heart such as ejection fraction (EF) and

ventricular volumes. CardIQ Function Xpress

uses multi phase cardiac gated datasets for processing.

The software automatically detects endocardial

and epicardial contours for assessment of left

ventricular (LV), right ventricular (RV) and

left atrial functional parameters.

o Automatically select each chamber of the

heart for individual chamber volume analysis. The software automatically selects

the LV 97%, LA 87% and RV 96% of the time.

o Automatic end diastolic and end systolic

selection for LV, RV and LA ejection fractions >91% of the time.

o Behind the scene processing & loading of

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function data for real time review of
ejection fraction, volume analysis
and
myocardial analysis.

- o One click activation for 4D beating heart
- a Automatic selection of epicardium and
epicardium and endocardium for myocardial
analysis.
- o Bulls eye plots representing wall motion,
wall thickness and wall thickening.
- a Automatic left atrium volume calcification
with exclusion of the pulmonary vein.
- o Single click visual wall motion activation
with short axis images in the basal, mid
and distol orientation along with a
2 chamber long axis view.
- o Flexible reporting tool with graphical
representations.
- o Display table of key functional parameters
for instant visualization.

System requirements:
AW Workstation with VolumeShare 7
or later
or AW Server 3.2 or later.

Item No.	Qty	Description
49	1	<p data-bbox="508 428 781 491">Requires AutoLaunch and Pre-Processing.</p> <p data-bbox="508 533 911 806">CardIQ Xpress 2.0 Reveal CardIQ Xpress 2.0 Reveal is an integrated post processing image analysis software for Cardiovascular CT on GE's Advantage Workstation.</p> <p data-bbox="508 827 906 1541">The optional CardIQ Xpress Reveal software can be used to effectively display, reformat and analyze 2D, 3D, and GSI CT images for qualitative or quantitative assessment of the anatomy of the heart and coronary artery vessels from single or multiple cardiac phase image data sets. When used with CardIQ Function, CardIQ Xpress Reveal can also provide functional assessment including relative perfusion information.</p> <p data-bbox="508 1562 899 1780">CardIQ Xpress Reveal can be launched directly or from within Volume Viewer applications using gated axial, helical or GSI CT images; including</p>

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images created using the SnapShot Freeze
intelligent motion correction option.
The software includes a variety of different 2D,
3D or reformatted protocols including: display
of the 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, color mapped plaque density
measurements, 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.
CardIQ Xpress Reveal combines simplified user
workflow with SnapShot Freeze intelligent motion

Item No.	Qty	Description
		<p>correction imaging.</p> <ul style="list-style-type: none"> o Pre-processing the images & models <ul style="list-style-type: none"> including SnapShot Freeze exams, for foster review o Loading images into the auto launch area <ul style="list-style-type: none"> area for real-time review of multiple exams o Easy switching from one protocol to the other without exiting the application o Single click one-touch cath views o Batch movie output within cardiac reformat o User defined layouts within vessel analysis <ul style="list-style-type: none"> for simplified viewing and filming o Multi-phase load to single phase review <p>The CordIQ Xpress reveal option allows the user to:</p> <ul style="list-style-type: none"> o Rendering and display of 2D/3D coronary <ul style="list-style-type: none"> 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

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section views

- o Measurements of coronary arteries including
 - stenosis and stenosis length, and density
- o PlaqID to color code non-calcified and
 - calcified plaque with volume measurements.
- a 2D reformat review with predefined views to
 - review all coronary vessels.
- o Color enhanced relative perfusion defect
 - pattern recognition for detection of ischemic heart disease with 4 color patterns
- o Automatically render data for streamlined
 - reading to include: 3D rendered heart,
 - angiographic view, tree VR, and ejection fraction.
- o 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
- o Perform functional evaluation of the heart
 - and cine capabilities for multiphase beating

Item No.	Qty	Description
		<p>heart images with one easy click</p> <p>a Extraction of the left ventricle and automated ejection fraction and volume measurements. Note: CordIQ Function</p> <p>Xpress is needed if myocardial wall motion, mass, wall thickness or chamber volumes for the Right Ventricle, Left Atrium, Right Atrium is needed.</p> <p>o 4D aortic valve and mitral valve views with one touch</p> <p>o Ability to select different protocols without exiting the application</p> <p>o Pre-defined VR IVUS-like views for virtually determining plaque compositions</p> <p>o One touch angiographic view protocol display</p> <p>coronary vessel tree and myocardium with automatic removal of heart chambers for cath comparative view</p> <p>o Heart transparency model allowing for full visualization of coronaries in relations to the heart chambers with the ability to fade out the chambers of the heart</p> <p>o Oblique reformot views in the</p>

Item No.	Qty	Description
		<p>standard cath</p> <p>angles for easy analysis of the coronary vessels</p> <p>o 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</p> <p>o 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</p> <p>System requirements:</p> <p>o AW VolumeShare 7 or AW Server 3.2</p> <p>o Auto Launch and Preprocessing Option</p>
50	1	<p>Smartscore 4.0 Single Floating License</p> <p>SmartScore 4.0 Single Floating License</p> <p>SmartScore 4.0 is a CT post processing software tool for the quantification of coronary artery calcium scoring (CACS).</p>

Item No.	Qty Description
	<p>Features include:</p> <p>Mass score and volume score, automatic highlighting of the calcium, flexible and customizable patient report. SmartScore works with gores cardiac datasets. SmartScore 4.0 is compatible with AW Server 2.0 and later</p>
51	<p>1 Thoracic VCAR and Lung VCAR Package</p> <p>Thoracic VCAR is a CT post processing software package designed to provide the user with a set of tools that allows the physician to make quantitative measurements that can assist in the diagnosis of lung diseases like COPD. The software combines segmentation of the lung and airways with analysis tools to provide advance analysis of the lung parenchyma and airways. The analysis comprises of 2D and 3D wall thickness and diameter measurements which provide an integrated approach to a comprehensive evaluation of a CT</p>

Item No.	Qty	Description
		<p>lung exom.</p> <p>Key features include:</p> <ul style="list-style-type: none"> o Quick basic 2D review with one-click <ul style="list-style-type: none"> measurements of wall thickness derived from airway and lumen diameters with display of inner and outer cantours for added reference a Simple workflow with segmentation of right <ul style="list-style-type: none"> and left lung and airways o One touch 3D airway tracking with <ul style="list-style-type: none"> measurements for airway analysis o Lobe segmentation - Segmentation of the left <ul style="list-style-type: none"> and right lung with additional tools to seperate and visualize by distinct lobes. Once segmented they can be displayed with <ul style="list-style-type: none"> calor overlays with volumes displayed by lobe a Airway analysis - Segments the airways from <ul style="list-style-type: none"> the trachea to the bronchi, which is tracked for lumen analysis <p>Lung VCAR takes a new direction in application design, leveraging the power af high resolution,</p>

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Description

volume scanning. This new technology is enabled by the Automatic Detection, Precise Segmentation and Interactive Quantitative Analysis that enhances analytics and improves data management.

Key features include:

- o a Digital Contrast Agent (DCA) - Automatically visualizes and highlights abnormal and potentially cancerous pulmonary solid nodules
- o Bookmarking Tools for ease of image review and analysis
- o Correlated Workflow-Synchronized 2D, DCA and Segmented Analysis
- o One Click Solid Nodule Segmentation from vessels and pleural wall
- o Segmentation Analysis of all nodule types
 - Solid, Non-Solid and Part Solid
- o Automatic Nodule Analysis

Provides:

- Percent Growth
- Doubling Time
- Volumes

Item No.	Qty	Description
		<ul style="list-style-type: none"> o Image Display Tools for comparison of initial and follow-up exams o Automatic Bookmark Propagation from previous to current or current to previous exams o Automatic Image Registration for image review synchronization o Customizable Personal Review Layouts o Interactive Patient Reporting (DICOM SR) <ul style="list-style-type: none"> Provides both structure and flexibility <p>Both Thoracic VCAR and Lung VCAR require AW VolumeShare7 and later or AW Server 3.2</p>
52	1	<p>VesselIQ Xpress & AutoBone Xpress</p> <p>VesselIQ Xpress & AutoBone Xpress</p> <p>VesselIQ Xpress provides an optimized non-invasive application to analyze vascular anatomy and pathology and aid in determining treatment plans from a set of CTA images.</p> <p>There are new features introduced in the VolumeShare 7 release including:</p> <ul style="list-style-type: none"> o Auto Abdominal Aorta Vessel

Item No.	Qty	Description
		<p>tracking</p> <p>which is a completely automated protocol</p> <p>with autobone removal, auto vessel tracking and automatic labeling of the</p> <p>abdominal aorta vasculature.</p> <p>o Fast Tracking which provides automatic</p> <p>real time feedback for auto-detected</p> <p>centerlines to speed up vessel tracking.</p> <p>o New editing tools that allow for flexibility in editing based on the size</p> <p>of the vessel being edited.</p> <p>This software supports the physician in:</p> <p>o Assessment of aneurysms with or without</p> <p>thrombus (false lumen) for size and volume</p> <p>measurements with the capability to track</p> <p>the size and volume over time, stenosis</p> <p>analysis, pre/post stent and surgical</p> <p>planning and directional vessel tortuosity</p> <p>visualization.</p> <p>o Automatic tools for the segmentation of bony</p> <p>structures in the brain and neck</p>

Item No.	Qty	Description
		<p>and other</p> <p>vascular areas for accurate identification</p> <p>of the vessels, single or double click vessel analysis.</p> <p>o Sizing the vessel, analyzing calcified and</p> <p>which is a completely automated protocol</p> <p>non-calcified plaque to determine the</p> <p>densities of plaque within a vessel, measure</p> <p>areas of abnormalities within a vessel</p> <p>(like stenosis, plaque, thrombus, dissection</p> <p>or leakage).</p> <p>o Semi-automated detection and segmentation</p> <p>of thrombus for subsequent measurements</p> <p>within the application.</p> <p>o Dedicated anatomy based protocols for</p> <p>improved workflow.</p> <p>a Compare a patient's previous exam to their</p> <p>current exam in order to measure and track</p> <p>any changes over time of their vascular</p> <p>structures.</p> <p>o After review of the exams, there are multiple ways to film, archive and</p>

Item No.	Qty	Description
		capture information for future review.
		System Requirements: o AW VolumeShare 7 or AW Server 3.2
		Note: All software are Non-Transferable to other hardware and are Non-Returnable.
53	1	<p>CordiQ Fusion for AW (PET and SPECT)</p> <p>CordiQ Fusion for AW (PET and SPECT)</p> <ul style="list-style-type: none"> • CordiQ Fusion is the worlds first dedicated PET/CT and SPECT/CT fusion application for cardiac imaging. It provides an optimized non-invasive application to analyze vascular anatomy and pathology; aids in the assessment of functional data e.g. PET perfusion, and aids in tailoring treatment plans based on the fused anatomical and functional information. • Anatomical data could be from a set of Computed Tomography (CT) Angiographic images while functional data could be from PET or SPECT. The data could be from hybrid scanners, e.g. Discovery VCT or stand alone scanners, e.g. Ventri and LightSpeed VCT • CordiQ Fusion is the premium 2D and 3D clinical analysis tool for CT angiography and PET or SPECT (gated or non-gated)

Item No.	Qty	Description
		<p>perfusion or viability studies providing the following unique capabilities</p> <ul style="list-style-type: none"> • Capability to visualize reformatted CT/PET/SPECT perfusion and viability data using the standard horizontal and vertical long axis, short axis, sagittal, coronal, and axial views • Different ways of visualizing CT anatomy fused with PET/SPECT functional information such as vessel tree, volume rendering, and standard reformat views • Ability to size vessels, analyzing calcified and non-calcified plaque to determine the densities of plaque within a vessel, measure areas of abnormalities within a vessel (like stenosis, plaque) • 1- or 2- click quick vessel analysis for any vessels in the heart • Save-state capability to save the current state of processing and results to retrieve later by the same or other users to resume the analysis
54	1	<p>CortexID Suite 2.0 Single Floating License for AW Server 3.1 or later.</p> <p>CortexID Suite 2.0 Single Floating License for AW Server 3.1 or later.</p> <p>CortexID Suite 2.0 is an automatic quantitative analysis package for the processing of FDG and beta amyloid</p>

Item Qty
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Description

PET brain scans. This is an evolution of the original Cortex ID application.

Key Features include:

- Automatic processing of: FDG, (F18) Flutemetamol, (F18) Florbetapir, (F18) Florbetaben, (C11) PIB
- Well proven, robust analysis method of 3D stereotactic surface projection (3D SSP), as well as VOI and voxel based quantitation.
- Automatic Co-Registration and Fusion with MR and CT
- Normal databases for FDG, Flutemetamol and PIB
- Longitudinal Comparison providing simultaneous quantitative results of two time points
- Ability to load dynamic data
- Q.Check to alert you to acquisition parameter changes
- Qualitative + Quantitative results in 90 seconds or less on overage
- Newly designed exam summary to enhance communication back to referring physicians and patients
- Flexible, interactive interface for easy customization
- Efficient workflow for consistent approach to reads
- Interactive, rotating 3D SSP models for review and

Item No.	Qty	Description
		<p>exporting</p> <ul style="list-style-type: none"> • Easy export of quantitative results for database tracking <p>CorexiD Suite 2.0 Requirement: AW Server 3.1 or later.</p>
55	1	<p>CortexiD Suite PiB Single Floating License for AW Server 3.1 or later</p> <p>CortexiD Suite PiB Single Floating License for AW Server 3.1 or later</p> <p>CortexiD Suite PiB license provides users with a normal database of C11 PiB exams. C11 PiB is used in research settings only. It is intended for this catalog to be included in all CortexiD Suite orders but especially for those customers who currently use or may use C11 PiB for their beta amyloid research activities. Inclusion of this catalog will give customers the ability to compare their C11 PiB datasets to a database of normal (beta amyloid negative) C11 PiB studies and product SSP Z-score maps, voxel based A-score maps and volume of interest standard deviation measurements.</p>
56	1	<p>PET VCAR Multimodality</p> <p>PET VCAR Multimodality is a comprehensive package including Integrated Registration (All modality), OncoQuant and PET VCAR applications</p> <p>Integrated Registration will be then accessible from PET VCAR to substitute the standard PET VCAR</p>

Item Qty No.	Description
	<p>scan to scan registration with the advanced Integrated Registration protocols for improved registrations performances and flexibility.</p> <p>PET VCAR Multimodality - integrated package of PET VCAR IR and OncoQuant allowing combined analysis using morphological and functional criteria's guidelines (RECIST, WHO, PERCIST & EORTC)</p> <p>Powerful patient monitoring Visualizing and analyzing disease and treatment response requires powerful tools. PET VCAR (Volume Computer Assisted Reading) provides automated, interactive access to valuable quantitative information, managing multiple lesions and multiple patient exams over time following the most popular treatment response assessment protocols available in PET/CT imaging, including PERCIST as well as EORTC criteria. It has the potential to improve the clinicians' daily reading experience and patient management.</p> <p>PET VCAR is fully integrated within the GE oncology platform, OncoQuant*, to help improve visualization and analytical monitoring of disease progression or response to treatment or therapy using multi-exam comparison. PET VCAR can also be used by the clinician to assist in diagnosis, staging, and treatment planning and monitoring treatment response</p>

Item Qty No.	Description
	<p>This new release of GE PET/CT advanced oncology solution is now based on OncoQuant, the GE multimodality oncology platform solution. "OncoQuant with PET VCAR INSIDE" has now the potential to improved physician's collaboration during tumor board meeting by providing a single and comprehensive tool which integrated WHO, RECIST, EORTC and PERCIST criteria.</p> <p>PET VCAR's workflow is designed to allow clinicians to make informed follow-up decisions in an efficient manner.</p> <p>PET VCAR integrates the following functionalities:</p> <ul style="list-style-type: none"> • Compute various Standard Uptake Value from the PET series: SUVLBM, SUVBSA, SUVBW, SUL/SUV Peak • Measure volume for any PET defined metabolic activity • Anatomical registration of serial exams (Pre & post therapy, baseline and multiple follow-up • Integrated Image Registration application allows multimodality registration • Optimized threshold based PET lesion segmentation: \ <ul style="list-style-type: none"> • maximum percentage threshold • Fixed threshold • Estimated threshold • Lesion target automatically assigned based on SUL/SUV

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PERCIST 1.0 predefined and fully customizable rules

- Fully Automated Multi-Modality Lesion Propagation & Tracking
- Q.Check allows quickly reviewing and comparing the acquisition parameters of every PET/CT exam loaded for the same patient to help analyze studies consistency and reproducibility as well as variability against site standard operating procedures
- Summary Table is a new feature in OncoQuant. This table works as an interactive findings navigator and collector in which users can store measurements captured during reading. The Summary Table is synchronized with the image display layouts offering quick measurement image visual validation.
- Adaptable Workflow for standard clinical reading to advanced research using tools supporting PERCIST criteria, as well as RECIST 1.0, 1.1 and WHO criteria (option)
- A Multi-Modality reading platform allowing comparison and correlation of CT, MR and PET/CT data

Requires:

AW VolumeShare 7 or AW Server 3.2

Item No.	Qty	Description
		Services
		Advance Installation Services - provides 8 hours of labor only service to support the installation of the AW Server
58	1	<p>2 Days TiP Onsite Training Advantage Windows Workstation--CT</p> <p>2 Days TiP Onsite Training Advontage Windows Workstation--CT</p> <p>One 2 day TiP onsite visit for CT Advantage Windows Workstation training. Includes T&L expenses. Days provided consecutively.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>
59	1	<p>2 Day TiP Onsite Training Advontage Workstation--PET</p> <p>2 Days TiP Onsite Training Advontage Workstation--PET</p> <p>One 2 day TiP onsite visit for PET Advantage Workstation training. Includes T&L expenses. Days provided consecutively.</p> <p>This troining pragram must be scheduled and completed within 12 months after the date of product delivery.</p>
	1	NonProducts
60	1	Local Freight w/o rigging at
	1	NonProducts

Item No.	Qty	Description
61		Ocean Freight
		NonProducts
62		Insurance at
		NonProducts
63		Broker Cost at