Item No.	Qty.	Description
1	1	The Discovery CT750 HD is the world's first head and whole body high definition Spectral CT system. It offers enhanced visual clarity and potential dose reduction when scanning all parts of the body, and all ages. The new FREEdom Edition is the foundation for the advanced Cardiovascular features of Snap Shot Freeze(1), Snap Shot Assist and Cardiac Spectral CT(*). Powered by the Gemstone Detector, the Discovery CT750 HD offers the highest available cardiac spatial resolution in the industry at 18.21p/cm(*2) and features Gemstone Spectral imaging, the 1st quantitative dual energy on the market. The Discovery CT750 HD output is a valuable medical tool for the diagnosis of disease, trauma, or abnormality and for planning, guiding and monitoring therapy. This Discovery CT750 HD configuration includes enhanced features of: Gemstone Spectral Imaging (Dual Energy), all cardiac acquisition capabilities, Volume Shuttle and Volume Helical Shuttle for dynamic perfusion.

1) SnapShot Freeze requires CardIQ Xpress 2.0 Reveal on AW VS6 or AW Server 2) Based upon internal test data comparing Discovery CT750 HD cardiac half-scan spatial resolution to data from Advanced CT Scanners for Coronary Angiography, ImPACT Report CEP10043, March 2010, available at http://www.impactscan.org

See More

The Discovery CT750 HD delivers unparalleled image quality enabling the visualization of greater anatomical detail, for assessment and diagnosis.

- up to 33% improvement in spatial resolution for body modes
- demonstrates best-in-class spatial resolutio of 0.23mm (calculated using 0% MTF) over the full 2 meter scan range
- up to 47% improvement in spatial resolution for cardiac scan modes
- offering the highest available cardiac spatial resolution in the industry at 18.21p/cm in z and 14.81p/cm in x-y(2). (measured at 2% MTF) Accurate quantification of stenosis in coronary and vascular vessels
- up to 40% improvement in low contrast detectability for greater soft tissue visualization, allowing improved

visualization of smaller low contrast structures down to 2mm in size.

Know More

Gemstone Spectral Imaging: The Discovery CT750 HD system with Gemstone Spectral Imaging can acquire CT images using rapid kV switching to acquire dual energy samples of the same anatomical region of a patient in a single rotation from a single source. The differences in the energy dependence of the attenuation coefficient of the different materials provide information about the chemical composition of body materials. This approach enables images to be generated at energies selected from the available spectrum to visualize and analyze information about anatomical and pathological structures. Gemstone Spectral Imaging:

- registers energies more than 165 times faster than a dual source CT system at .33-second rotation speed

- generates derived images over a 50cm SFOV for the separation of materials such as calcium, iodine, and water

- provides derived monochromatic spectral images at 101 user selectable energy levels for image contrast optimization

- reduces beam-hardening artifacts due to bone, metal, and other high contrast material (example: iodine) up to 50%

- can detect iodine concentrations as low as 0.5% in density

- ASiR is now available within GSI allowing the users to optimize dose by selecting the amount of ASiR within the protocol

- New GSI presets have been added which have a
  lower CTDI vol. These presets were designed to achieve dose neutrality between GSI and single kV scanning for the same application.

- Can acquire up to 256 reconstructed slices per rotation comprised of 4 separate image series: monochromatic, two material density image series and 140 kVp

Volume Helical Shuttle: The Volume Helical Shuttle dynamic imaging option allows covering anatomical volumes up to 312.5mm for 4D CT Angiography exams, more than enough coverage for any organ in the human body. This correlates to 500 slices of dynamic 4D coverage. For perfusion assessment VolumeShuttle provides 80mm of axial shuttle coverage, and Volume Helical Shuttle provides up to

Item No. Qty		Description

120mm of helical coverage.

Less Dose

The Discovery CT750 HD innovations continue with advances in reconstruction technology resulting in dramatic dose reduction opportunities in the entire body compared to predecessor CT systems. Adaptive Statistical Iterative Recon (ASIR):provides users with a new and innovative image reconstruction technology to reduce unwanted noise in diagnostic images. ASiR accurately models the noise in the raw data space and thereby removes the noise, allowing users to maintain image quality*(pixel standard deviation(4).

4) In clinical practice, the use of ASiR 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 kV Scanning- The Discovery CT750 HD provides the ability to scan with energies as low as 80 kV. The physics of the k-edge absorption properties of Iodine at the lower energy inherently increases the image contrast. This is important for vascular studies. The Performix HD tube can deliver as much as 700mA at 80kVp. Both Veo and ASiR may be able to reduce image pixel standard deviation (noise) reduction and improve LCD(3). this is important for exams where good CNR (boost in contrast from lower kV, with potentially reduced noise from ASiR and Veo) is desired, such as liver studies.

3) In clinical practice, the use of ASiR and Veo 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. ASiR and Veo may reduce image pixel standard deviation and enable an improvement in LCD. In clinical practice, the actual level of image pixel standard deviation reduction and LCD improvement may vary. Consult with a radiologist and a physicist.

Discovery CT750 HD Technology

The revolutionary clinical advances of the Discovery CT750 HD are

achieved via technological leaps forward in the entire image chain including reconstruction hardware and algorithms.

The key technological advancement is GE's proprietary Gemstone (TM) Detector enabling the improvements in spatial resolution, low contrast detectability, and spectrallmultiple energy) imaging. The Gemstone detector is a garnet based CT scintillator was chosen for its highly efficient optical properties. Gemstone detector sets a new standard in CT scintillator performance supporting the next generation of CT imaging applications such as spectral imaging. This is the first new CT scintillator to be developed in the past 20 years and is designed

to support high definition imaging.

System components: This whole body CT system includes a compact geometry premium gantry, table, Power Distribution Unit, high performance Xtream HD console with 2 high definition LCD's, customized keyboard, and graphical user interface design for efficient workflow with one technologist.

Gantry: GE's compact gantry design and advanced 10G baud slip ring design continuously rotates the Performix HD tube, HD generator, Gemstone detector and Volara HD digital data acquisition around the patient. Exclusive VariSpeed allows short breath holds, more comfortable exams and the flexibility to customize protocols for unique patient needs.

- Aperture: 70 cm
- Rotational speeds: VariSpeed technology 360 degrees in 0.35, 0.375, 0.4, 0.475, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0 Seconds
- Integrated breathing lights & GE exclusive countdown timer
- Integrated start scan button with countdown timer to indicate when x-ray will turn on
- Tilt: +/- 30 degrees, speed: 1 degree/second
- Remote tilt from operators console

Gemstone (TM) Detector: The GE proprietary Gemstone detector enables high definition CT. Ultimately the performance of every CT system begins with the detector, and Gemstone sets a new standard in scintillator primary speed, afterglow and performance supporting the next generation of high definition CT imaging applications such as single source spectral imaging. The proprietary

Gemstone scintillator is the first new detector material developed in the past 20 years. The V-Res detector benefits are:

- 98% efficient at 120kvp
- Fastest primary speed in the industry
- Best afterglow performance in the industry
- Higher resolution with lower noise per image
- 20 times less radiation damage of the scintillator when compared to competitive detector materials (Gadolinium Oxysulfide)
- Isotropic ceramic with a cubic structure
- Consistent Image Quality from the use of GE's exclusive patented detector material
- Backlit diode technology provides 100% active area

Performix HD X-ray Tube: Performix HD metal-ceramic tube unit with its unique electrostatic cathode collimator design allows the focal spot to be dynamically positioned and customized to the clinical protocol and patient. The anode heat storage capability and wide range of technique (10 ma to 835 ma, in 5 ma increments) give the technologist and physician the flexibility to tailor protocols for even the most demanding acute care and cardiac exams without tube cooling.

- Heat storage capacity: 8.0 MHU
- Maximum power: 107 kW (835mA)
- Small focal spot power: 570mA at 120kv, standard resolution
- Small focal spot power: 420mA at 120kv, high resolution
- Beam collimated to 56-degree fan angle
- Heat dissapation: -Anode (Max)>2,100 KHU/min -Casing (cont) 648 KHU/min

HD High Voltage Generator: The HD Generator is capable of switching energy at very high speed to support Gemstone Spectral Imaging.High Frequency on-board generator allows for continuous high power demands required for acute care, cardiac and bariatric exams.

- Maximum Output Power 100kW, 107kW with GSI
- kVp: 80, 100, 120,140
- Energy Switching Speed: up to 0.5 msec (0.25ms with Cardiac GSI option)

Item No. Qty	Description

- mA: 10 to 835, in 5 mA increments Maximum mA for each kVp selection:
  - kVp Max mA GSI Max mA
  - 80 700 765
  - 100 800
  - 120 835
  - 140 715 765

Volara HD Digital DAS (Data Acquisition System): The Volara HD digital DAS is high-speed data acquisition system that dramatically improves image quality, especially spatial resolution,low dose exams, and artifact reduction.

- up to 2,496 views per rotation for improvement in spatial resolution and improved image quality across the entire 50cm field of view
- 7,131Hz maximum sample rate
- 58,368 available input channels
- 23 bit dynamic range, 8,000,000 to 1

Integrated Laser Alignment Lights:

- Defined internal and external scan planes to +/- 1 mm accuracy
- Coronal light remains perpendicular to axial light as gantry tilts making visual readout easy from tableside or the operator console

Patient Table:

- Cantilever design for easy patient access, and stability
- Vertical range: 43 cm to 99.1 cm, scannable: 78.5 cm to 99.1 cm
- Horizontal range: 1700mm, (2000mm option)
- Horizontal speed: up to 137.5 mm/sec
- Table automatically re-centers on scan plane with changes in vertical position
- Helical pitches: 0.5:1, 0.9:1, 1.375:1, and cardiac pitches 0.16:1 to 0.24:1 for 0.35 sec cardiac scanning
- Table capacity: 227kg(5001b) +/- 0.25mm positional accuracy

Low Dose Cardiac Capabilities: The low dose cardiac capabilities

Item No. Qty	Description

allow the user to acquire cardiac images with the highest cardiac spatial resolution of 18.21p/cm*2, with retrospective or prospective gated acquisitions utilizing 0.35 second rotation speed for excellent cardiac exams. The following features are included:

- SnapShot (TM) Pulse is a cardiac scanning technique that reduces patient dose up to 83%15) and improves cardiac workflow, with uncompromising image quality. SnapShot Pulse uses prospectively triggered axial acquisitions synchronized by the patient heart rate, in which x-rays are turned on only during the required heart phase and turned off completely at all other times. Three to four snapshots are needed to complete a cardiac exam. Up to 300ms of padding is available with Snapshot pulse imaging

- SnapShot Imaging is designed to produce optimized cardiac images with minimum cardiac motion effects. Three different imaging acquisition techniques are available for the user with temporal resolution(TR)as low as 43ms. SnapShot Segment is a single sector mode with TR of 175ms, SnapShot Burst is a dual sector mode with TR of 87ms and SnapShot Burst Plus uses up to 4 sectors with TR as low as 43ms. For acute care, a triple rule out exam can be acquired with ECG-gating of the chest in a single breath hold in order to assist in the diagnosis of coronary artery disease, aortic dissection and pulmonary embolism.

- Cardiac Trigger Monitor to synchronize R-Wave output with the CT system. Features include: ECG and Heart Rate Display, P-Lock Algorithm, Trigger Mark, Chart Recorder ECG Data Storage, ECG Notch Filter, System Interlock and internal Universal Power Supply Designed exclusively to work with GE CT Scanners.

- 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 where there is irregular heartbeat or suboptimal triggers.

- Cardiac enhancement filters may reduce noise (pixel standard deviation) while maintaining spatial resolution in a cardiac image with three different levels of image filtration while

preserving the edge image detail.

- ECG gated dose modulation reduces patient dose by modulating x-ray technique during acquisition based heart phase.
- SnapShot Assist - Helps users Optimize ECG-gated CT Acquisistions based on patient heart rate characteristics

5) Dose reduction comparing a SnapShot Pulse prospective gated axial acquisition with 75ms padding at a cardiac helical acquisition (40BPM) both with a 140mm scan coverage. In clinical practice, the use of SnapShot Pulse may reduce cardiac CT patient dose depending on the clinical task and patient heart rate. A consultation with a radiologist should be made to determine the appropriate acquisition mode and scan settings to obtain diagnostic image quality for the particular clinical task.

Xtream(TM) HD Workflow: Xtream HD Workflow Platform built on the LINUX operating system for flexibility and security, the next evolution of GE's workflow and reconstruction architecture built to help you maximize productivity and lower dose with ASiR. The split tabletop allows unrestricted patient viewing while supporting 2 - 19 inch color LCD monitors. Each work surface can be adjusted to accommodate a wide variety of operator preferences and site requirements.

Adaptive Statistical Iterative Recon (ASIR) provides the users with an innovative image reconstruction technology that may enable reduction in pixel noise standard deviation. The ASiR reconstruction algorithm may allow for reduced mA in the acquisition of diagnostic images, thereby reducing the dose required. ASiR may enable improvement in low contrast detectability(6).

6) In clinical practice the use of ASiR may reduce CT patient dose and improve low contrast detectability 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 image quality for the particular clinical task.

Xtream HD Reconstruction breaks through existing limits on speed, image quality and flexibility to provide an optimized volumetric workflow solution from acquisition to final report.

Item No. Qty	Description

- Delivers up to 35 full fidelity images per second lips) reconstruction

- Up to 16 ips network transfer rates
- DMPR (Direct Multiplanar Reformates) enables prospective 3D review of sagittal, coronal and oblique planes automatically

- Exam Split delivers the capability to split a series of patient images into separate groups for networking

- Data Export and Interchange that allows you to easily share images with referring physicians and patients

- Complete set of clinically proven, low dose protocols and the ability to customize your own for a total of 8,460 programmable protocols. Xtream allows you to automate or build every task into protocols to increase throughput.

- Image decomposition to: -Retrospective thin images from data sets where thicker images were initially reconstructed -Facilitates more detailed image & analysis -Improves 3D and reformat visualization

- Neuro 3D Filters provide users the capability to filter angiographic data using a specially designed and optimized 3D filter. May be prospectively applied with Application Auto-Launch

- VariViewer is an interactive axial review mode that can change the slice thickness reconstruction instantaneously

Xtream HD Operator Console:
- HP Z800 Computer with integrated reconstruction modules
- Image storage for approximately 460,000 512 images
- 4.7 GB DVD/CD-R for data interchange (not recommended as a long term archive)
- Scan data storage for approximately 3000GB
- VolumeViewer 5.0
- AW Server Connection

Scan: Xtream HD workflow allows simultaneous scanning, image reconstruction, display, processing and analysis, as well as networking, archival and filming

- Anatomical programmer allows quick and easy access to user progammable protocols. These are separate selector for adult and pediatric protocols

- Protocols include preset scan time, kVp, mA, scan mode, image thickness and spacing, table speed, scan FOV, display FOV and center, recon algorithm, networking destination, archiving and special processing options like Direct MPR
- AutoVoice: 3 preset (English) and 17 user defined messages automatically deliver patient breathing instructions, epecially useful for multiple helical scanning
- Trauma Patient mode: Allows patient scans and image display/analysis without entering patient data before scanning
- Reconstruction Algorithms: Soft Tissue, Standard, Detail, Bone, Bone Plus, Lung and Edge

OptiDose Features: OptiDose management features: bowtie filters optimized for coronary angiography and pediatric exams, 3D dose modulation, Color coding for kids, hardware and software for x-ray beam tracking, ECG dose modulation, to name a few of GE's dose optimization features, all based on the ALARA principle.

- 3D Dose modulation. Before the scan, clinicians can select the desired Noise/IQ: CT then tailored automatically exposure parameters, patient to patient and real-time x-y-z during each scan, resulting dose optimization for the selected noise index.
- Tracking collimator hardware and software for x-ray beam tracking to minimize patient dose
- Filtration of the x-ray beam is optimized independently for body and head applications
- DLP (dose length product)and dose efficiency display and reports during scan prescription provide patient dose information to the operator and can be saved with each exam
- DICOM Dose report included with each exam
- Dose Check provides the user 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). Dose Check provides the following:
- Checking against a Notification Value if the estimated dose for the scan is above your site established value
- Checking against an Alert Value where the user needs specific authority to continue the scan at the current estimated dose

without changing the scan parameters if the estimated dose exceeds the alert value

- The ability to define Alert Values for Adult and Pediatric with age threshold
- Audit logging and review capabilities
- Protocol Change Control capabilities

SMART Technologies: Allows for the Discovery CT750 HD Scanner to tailor the x-ray beam to the patient being scanned. In order to use the optimal amount of dose to achievve the desired image quality, it is important to know the patient attenuation. This information can be generated by the scanner utilizing the scout data, which is then leveraged by our family of SMART technology features:

- SmartmA and AutomA - 3D modulation of the tube current to deliver the right dose at the right place
- GSI Assist - Helps users select the corresponding preset for a targeted CTDI for a comparable non-GSI AutomA scan
- kV Assist - Recommended tube voltage and current to achieve the lowest dose while meeting desired image quality

Volumetric Image Space Reconstruction (VISR) are 3D filters that reduce image noise (standard deviation) without compromising spatial resolution to provide clear visualization in neuro and cardiac imaging.

Dynamic Z-Axis Tracking provides automatic and continuous correction of the x-ray beam position to block unused x-ray at the beginning and end of a helical scan to scan to reduce unnecessary radiation.

Image Networking: Exams can be selected and moved between the Discovery CT750 HD System and any imaging system supporting the DICOM 3.0 protocol for network send, receive and pull/query.

- Standard Auto-configuring Ethernet
- Direct Network Connection
- Supports 1GB or 10/100 BaseT
- Supported Protocols -DICOM 3.0 Network -Advantage Net -InSite Point-to-Point -TCP/IP (for System Administration)

DICOM Conformance:

- DICOM 3.0 Storage Service Class

Item No. Qty		Description

- Service Class User (SCU) for image send
- Service Class Provider (SCP) for receive
- DICOM 3.0 Query/Retrieve Service Class
- DICOM 3.0 MOD Media Service Class
- DICOM 3.0 Storage Commitment Class Push
- DICOM 3.0 Modality Worklist (Ind:Performed Procedure Step through ConnectPro option)
- DICOM 3.0 Print

InSite Broadband included: All hardware and software required to connect this CT system to GE's InSite On-Line Center via secure VPN high-speed internet connection. Enables customer to access services designed to: reduce downtime, improve quality, enhance performance, increase productivity, and expand imaging capabilities, and increased privacy and security of data transmissions.

128i provides 128, 0.625mm images, per axial rotation allowing increased image-space sampling and enables improved visibility of small objects.

Warranty: The published Company warranty in effect on the date of shipment shall apply. The Company reserves the right to make changes. All specifications are subject to change.

Regulatory Compliance: This product is designed to comply with applicable standards under the Radiation Control for Health and Safety Act of 1968.

Laser alignment devices contained within this product are appropriately labeled according to the requirements of the Center for Devices and Radiological Health.

This product complies with the performance standards of 21 CFR, sub-chapter J, and the applicable IEC 60601-1 series.

This product is a CE-compliant device that satisfies regulations regarding Electro-Magnetic Compatibility (EMC) and Electro-Magnetic Interference (EMI), pursuant to IEC-60601-1-2.

Siting Considerations: See the Pre-Installation manual for details of the siting requirements for GE Discovery

| 2 | 1 | • Keyboard |

Item No.	Qty	Description
		• Operator and Technical Manual
		• Labeling
3	1	Standard length cable set for CT750 HD
4	1	The VT 2000x High Capacity Table enables volume scanning with increased weight capacity.
		Key features of the VT2000x table include: 675 lb. (306kg) weight capacity, 2000mm scannable range, 137.5mm/sec travel time, real-time position control to support advanced application such as SnapShot Pulse, VolumeShuttle, and Volume Helical Shuttle.
		The VT2000x is an option only available with Discovery CT750 HD.
5	1	SmartView(TM) Fluoro Package Includes In-Room Monitor and Boom
		SmartView Enables an Imaging Mode for Performing Biopsies and Other Interventional Procedures. An In-room Monitor, Hand Held Controller, X-ray Exposure Foot Pedal and Cradle Handle Provide In-room Control for Image Acquisition and Image Review. The Hand Held Controller Provides the Operator with Controls to Prepare the Scanner for Imaging, to Turn Alignment Lights On and Off, to Move the Cradle, Review Images and Adjust the Window Width and Level; and the Foot Switch Provides In-room Control of X-ray On.
		Image Display presents single or multi real time image display, a Free Viewport and timers for the remaining and accumulated exposure time and estimate of dose. The Display Control Provides Roam, Zoom, Magnify, Measurement, Annotation, Grid, Image Orientation, and Save Screen Image Review Capabilities. Data Acquisition Includes a 4,8 or 16 row Data Acquisition Mode Using 4x0.625mm, 8x0.625 mm 16x0.625mm Detector Configurations and a 3i (8 FPS) or 1i (12 FPS) Reconstruction Mode to Create 1.5 (3i only), 2.5, 5 and 10mm (1i only) thick 340 Matrix Images. All Scan Fields of View and Reconstruction Algorithms are Available with 0.4, 0.5, 0.8s and 1.0s Gantry Rotation Speed. Tilted acquisition capability
		Only valid for customer with Discovery CT750 HD and LightSpeed VCT. Customers upgrading LightSpeed VCT systems require a GOC6 or higher console platform.
6	1	Veo is the industry's first model-based iterative reconstruction

Item No.	Qty	Description

which provides a new benchmark for CT image quality at lower dose. This breakthrough is changing the way physicians use CT imaging, delivering a combination of high-quality images and low dose that was previously unthinkable.

Available with the Discovery CT750 HD, Veo is a powerful new approach to CT image reconstruction which may provide improved Image Quality (LCD, spatial resolution & pixel standard deviation) with less dose than ASiR (TM) or FBP reconstruction(1), opening possibilities for further dose reduction in clinical practice.

Veo Image Quality benefits may include: o Extraordinary resolution with thin slice slice detail o Improved low contrast detectability o Less noise(2) with fewer artifacts when compared to traditional image reconstruction approaches

Along with unmatched image quality VEO also may allow you to image under 1mSv, this benefit is significant, especially for the most radio-sensitive patients including pediatric, young women, and those requiring regular follow-up and monitoring. With lower dose the opportunity to dramatically reduce cumulative dose in patients who require regular follow-up exams is also possible.

Included with the package:

- Quad-Core Multi BladeCenter computing platform, capable of simultaneously processing multiple reconstructions
- Intel (R) Xeon Dual-Processors 2.53Ghz (2 per blade)
- 168GB of RAM

1- In clinical practice, the use of Veo 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.

2 - Noise as measured as pixel noise standard deviation.

Item No.	Qty	Description
7	1	Uninterruptible power supply (UPS) is designed to meet customer requirements for high-density, cost-effective power management to avoid data corruption during power outage. This unit provides 10KVA/8KW of power protection for 17 minutes of extended operations at full power with loss of input power.

This UPS also provides:

- Full-time surge suppression
- Automatic voltage regulation and noise filtering
- Hot-swappable batteries to help maximize uptime and availability

*BladeCenter is a register trademark of IBM

8	1	AW VolumeShare 5 with Two Flat Panel Monitors and 6GB of RAM.

AW VolumeShare 5 is a multi-modality image review, comparison and post processing workstation built with simplicity and power at its core. Powerful software is optimized to take advantage of state of the art 64 bit technology and multiple cores to ensure leading edge performance.

AW VolumeShare 5 features include:

Hardware:

- HP Z800 Workstation with Intel x5650 Six Core Xeon 2.66 GHz CPU with 8MB Shared L2 Cache / 1333 MHz Dual FSB
- 6GB DDR-3 1333 ECC DIMM
- 300GB SAS 15,000rpm Hard Disk for OS and Apps.
- 600GB SAS 15,000rpm Hard Disks for Image Data
- 2 x 19" EIZO MX191 Monitors

Software:

- Fast access to information you need through optional RIS integration & priors post-fetch
- Efficient workflow through dynamic load, end review and Key Image Notes features
- Optional productivity package to pre-process exams and allow up to 8 simultaneous sessions
- Applications usage monitor to track usage of your system
- Smart layouts with Volume Viewer General review protocol that optimizes comparison and single exam layouts
- Enhanced multi-modality contouring tool with support for PET SUV's
- Support for external DICOM USB media and preference management tool to exchange preferences across users
- Support for optional, broad suite of multi-modality advanced applications

Item No.	Qty	Description
9	1	VolumeShare 5 Software Only Upgrade
10	1	Dynamic Shuttle Single Floating License

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

Requires:

- AW Floating License Manager to be installed at your facility.
- AW's "Concurrency Enabled" to access this floating license

11	1	AW VolumeShare5 Productivity Package with 24GB of Additional RAM.

Requires HP Z800 Hardware

AW VolumeShare5 with Productivity Package Represents:

- More Capacity to Load Multiple Large Dataset with at least 24GB of RAM.
- Instantaneous Display of Exams with AutoLaunch.
- Instantaneous Access to the Segmented Vessel Volume with Preprocessing.

Productivity Package makes full use of the 64 bit Technology as well as the Dual Screen z800 Hardware of the AW workstation. It Runs 12 to 24GB of RAM giving the Ability to Load simultaneously up to 15,300 Images.

AutoLaunch Loads Automatically Multiple Cases as soon as they are Transferred to the AW. A Single Click in the AutoLaunch Window Raises Instantly in the Case in Volume Viewer. Interaction with the Data is Immediately Possible as they are Preloaded and Ready to Use. AutoLaunch is compatible with CT, MR and PET Single Volume Protocols of Volume Viewer.

One-Touch Links provide the Ability to Automatically Launch the best Protocol for each Exam based upon DICOM Image Acquisition Elements. An Intuitive User Interface in the Protocol Launcher provided an Easy Configuration of One Touch Links by Clicking the

Hand Icon.

When combined with Optional AutoBone Xpress, the Productivity Package will also Provide the Automatic Preprocessing of the Bone Removal. Raising CTA Exams Located in the AutoLaunch Window will give Instantaneous Access to the Vessel Volume Resulting from the 0-Click Bone Removal. There is No More Waiting Time between the Exam Selection and the Ability to interact in 3D with the Segmented Vascular Volume.

12	1	CardIQ Xpress Reveal is an integrated post processing image analysis software for Cardiovascular CT on GE's Advantage Workstation.

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.

CardIQ Xpress Reveal can be launched directly or from within Volume Viewer applications using axial, helical or GSI CT images; including images created using the SnapShot Freeze intelligent motion correction option. It provides the user with both single and multiple cardiac phase analysis protocols for single energy and spectral energy CT images.

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.

Clinical applications include: imaging of cardiac morphology, coronary artery imaging and assessment of relative perfusion,

assessment of plaque, bypass graft potency, post intervention follow-up and functional assessment.

CardIQ Xpress Reveal combines simplified user workflow with SnapShot Freeze inelegant motion correction imaging.

- Pre-processing the images & models including SnapShot Freeze exams, for faster review
- Loading images into the auto launch area area for real-time review of multiple exams
- 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:

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

easy click

- Extraction of the left ventricle and automated ejection fraction and volume measurements
- 4D aortic valve and mitral valve views with one touch
- Ability to select different protocols without exiting the application
- Pre-defined VR IVUS-like views for virtually determining plaque compositions
- One touch angiographic view protocol display coronary vessel tree and myocardium with automatic removal of heart chambers for cath comparative view
- 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
- Oblique reformat views in the standard cath angles for easy analysis of the coronary vessels
- 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
- 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

System requirements:
- AW Workstation with VolumeShare6 on HP 8400 or later with a minimum of 16GB RAM or a HP Z800 with 24GB of RAM
- Auto Launch and Preprocessing Option
- 2 monitor configuration
- Color Landscape monitor

Item No.	Qty	Description
13	1	AdvantageCTC Pro3D EC is a CT Colonography (CTC) Advanced Application Software Package for the analysis of the colon and surrounding structures utilizing helical CT data. The physician centric design provides a complete reading workflow solution. Synchronized, index review of 2D, 3D and dissection views provide a fast complete analysis of the CT data.

Key fetures include:

- Electronic Cleansing for the visualization of anatomy

Item No. Qty		Description

would previously be hidden behind tagged fluid.

- 360 degree Dissection Prone & Supine Views Aids in decreasing analysis and review time.
- Prone and supine synchronized image review This feature provides a complete view of the colon and is aided by Electronic Cleansing to visualize anatomy behind tagged material.
- Small Bowel Extraction - The software quickly segments and removes the small bowel for unobstructed viewing of the colon.
- Polyp Color Display - User can color mark polyps for easier tracking.
- Movie Generator - Create movie views with just a few clicks. Movie may be saved in a MPEG format.
- Virtual Joystick - Navigational tools for fast review with mroe control.
- Virtual Biopsy View - To assist in problem solving complex areas of interest.
- Tagging Support - Aid in centerline creation and review of tagged exams.
- Patient Report - Customizable reports that offers compelte flexibility. The report may be exported to CD, HTTP or printer.

System Requirements:
- AW VolumeShare5
- Two-monitor/flat panel configuration recommended.

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

Item No.	Qty	Description
14	1	The GSI Viewer is the application tool for viewing and manipulating spectral images acquired with GE's Gemstone Spectral Imaging capability on Discovery CT750 HD. Key features include:

- Protocol Driven Design - This feature provides a standard set of protocols with the additional ability for users to create and save their own protocols.
- Monochromatic Image Review - With this feature the user has the ability to interactively change the monochromatic energy levels so that the user can select the best energy level for the exam being reviewed.

Item No. Qty	Description

- Image Overlay - The viewer provides a simple way for the user

to move from review to analysis by overlaying material density, and effective atomic number (effective-Z) information on top of the monochromatic images.

- Material Density Analysis - Users can visually see how the GSI data is segregated amongst a material density pair, e.g. water and iodine.

- Plot Analysis - This feature displays ROI's as graphical plits in the form of a histogram, a scatter plot, spectral HU curve and an optimal CNR (contrast to noise) plot.

Benefits are:
- Material Decomposed images allow for the seperation of materials like calcium, iodine, and water.

- Visualize a virtual non-contrast like image using water-iodine basis pair image.

- Adjusting monochromatic energy levels can optimize image contrast and reduce beam-hardening artifacts.

- Discriminate different tissue types based on material density and monochromatic image data.

System Requirements:
- AW VolumeShare4
- 16GB RAM
- Two monitor/flat panel configuration recommended

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

Item No.	Qty	Description
15	1	CT Perfusion 4D Multi-organ Package is an image analysis software package that allows the evaluation of dynamic CT data following an injection of a compact bolus of contrast material, generating information with regards to changes in image intensity over time. The software provides a quick and reliable assessment of the type and extent of cerebral perfusion disturbances by providing qualitative and quantitative information on various perfusion related parameters, which may be related to acute stroke, brain tumor angiogenesis and treatment thereof. The key perfusion parameters that CT Perfusion 4D Neuro Multi-organs Package generates are:

- Regional Blood Volume (BV;

- Regional Blood Flow (BF; ml/min/100g)

- Regional Mean Transit Time (rMTT;s)
- Capillary Permeability Surface Area Product (PS)
- Time of Arrival (IRF TO)
- Transit Time to IRF Peak (Tmax;sec)

Perfusion 4D also includes a new feature, Tissue Classification Index, which provides a thresholding algorithm that may aid the clinician in determining the status of the tissue based on blood volume and blood flow maps, where the first six hours after onset of symptoms are critical in identifying the occurance of stroke and follow-up treatment.

Productivity is enhanced through the protocol driven design of the user interface. An example of this is the Brain Stroke Protocol (Automatic) that completes the processing with one touch reducing the time required to process the exam and to enhance repeatability.

Protocols are also provided for:
- Brain Tumor
- Body Tumor
- Liver, Pancreas, Prostate, Kidney, Soft Tissue, Spleen and Bone.

Perfusion 4D is compatible with AW VolumeShare5 or Advantage Workstations Server.

Item No.	Qty	Description
16	1	SmartScore 4.0 Software Kit Only for AW 4.2P and Higher.

B79971JH SmartScore 4.0 is for the Advantage Windows Workstation. New features include: Mass score, automatic highlighting of the calcium, new mouse modes & improvements to patient report. Images from GE LightSpeed, BrightSpeed or Xi product lines with either prospective or retrospective gating data can be used with the SmartScore software.

Item No.	Qty	Description
17	1	VessellQ Xpress St AutoBone Xpress

CT VessellQ Xpress and Autobone Xpress is for AW VolumeShare5

VessellQ 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. This software supports the physician in:

Item No. Qty	Description

- Assessment of aneurysms with or without thrombus (false

lumen) for size and volume measurements with the capability to track the size and volume over time, stenosis analysis, pre/post stent and surgical planning and directional vessel tortuosity visualization.

- Automatic tools for the segmentation of bony structures in the brain and neck and other vascular areas for accurate identification of the vessels, single or double click vessel analysis.

- Sizing the vessel, 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, thrombus, dissection or leakage).

- Semi-automated detection and segmentation of thrombus for subsequent measurements within the application.

- Dedicated anatomy based protocols for improved workflow.

- Compare a patients previous exam to their current exam in order to measure and track any changes over time of their vascular structures.

- After review of the exams, there are multiple ways to film, archive and capture information for future review.

System Requirements:
- AW VolumeShare5

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

Item No.	Qty	Description
18	1	SnapShot(TM) Freeze: An intelligent motion correction algorithm designed to reduce blurring of coronary arteries due to motion artifacts. SnapShot Freeze reduces motion artifacts up to 6X, equivalent to a 0.058s Equivalent Gantry Rotation Speed with Effective Temporal Resolution of 29msec*. This benefit is delivered by characterizing the vessel motion (path and velocity) to derive the optimal vessel position at the target phase.

The SnapShot Freeze Advanced Package includes SnapShot Assist which optimizes ECG-gated CT acquisitions based on patient heart rate characteristics. SnapShot Assist uses the patients recordedheart information to display scan parameters (including scan mode, cardiac phases, padding and pitch) that could be used

during the cardiac CT scan.

SnapShot Freeze option is only available for the Discovery CT750

HD and requires Cardiac Imaging with an ECG Monitor and CardIQ Xpress 2.0 Reveal on AW VS6 or AW Server.

* As measured in Cardiac Phantom testing

19	1	CT Seismic Anchorage (All)

20	1	Un-Interruptible Power Supply

Un-interruptible Power Supply for CT750 HD, and LightSpeed VCT systems. Un-interruptible power supply: supply's power to CT console allowing the user to power down system in the event of source power loss; thus preventing the loss of scan data previously acquired before source power loss. This UPS also: -Provides continuous protection to all of the system's major electronics subsystems -Protects the tube from power outages because it continues to provide power for tube cooling. -Minimizes system restart time by continuing to power the thermal control of the DAS and detector. -Provides enhanced ease of patient removal from the system by keeping the table powered.

21	1	Service cabinet for system accessories storage

22	1	CT Main Disconnect Panel - 125 Amp with Auto Restart

FEATURES/BENEFITS

- Custom panel serves as the main power disconnect between the CT system and the facility 400-480V power source Panel provides short circuit, overload, undervoltage release, automatic restart, and emergency shut down for the CT system

- Reduces installation time and cost by providing a single-point power connection eliminating the need to mount and wire a number of individual components

- Standardized design and testing assures high product quality and system reliability

- On systems where the optional 12.5 kVA partial system UPS is ordered, the Main Disconnect Panel also provides mandated emergency power off control via a UPS output disconnect function included in the panel design

- Provides a standardized platform for future UPS or other GE engineered modifications or upgrades

SPECIFICATIONS

- Dimensions (H x W): 30.24 in. x 19.78 in.
- Enclosure Depth: 7.05 in.
- Handle Depth: 10.3 in.
- Weight: 110 lbs.
- UL, cUL and CE labeled
- Panel disconnect provides OSHA lockout/tagout provisions
- Surface or semi-flush mounting
- Partial system UPS sold separately (E4502F)

COMPATIBILITY

- CT LS Pro 16, LS Pro 32, RT Systems, LS VCT, CT 750HD, Discovery 690 VCT

NOTES:

- Customer is responsible for for rigging and arranging installation with a certified electrician
- ITEM IS NON-

Item No.	Qty	Description
23	1	Medrad Stellant D Dual-Flow Ceiling Mount Injection System with Short Post. Requires E8007PJ Mounting Plate be added to the order....E
24	1	OCS III MOUNTING PLATE
25	1	Medrad Stellant P3T Cardiac Protocol Option

P3T Cardiac computes custom injection protocols as well as scan timing for each patient, enabling personalized care and patient safety while maintaining efficient workflow.

- Utilizes the power of DualFlow technology (simultaneous injection of contrast and saline) to obtain functional cardiac data
- Enables more consistent images across varied patients, studies and technologists
- Eliminates the need to estimate injection protocols for 27/29

complicated studies

| 26 | 1 | Slicker - CT HD750 and VCT w/GT 2000 Table (2 Piece Set) |

FEATURES/BENEFITS

- Two-piece, sealed slicker cushion set has comfort pads enclosed inside the slicker cover and extender cover
- Durable, clear PVC plastic cover facilitates faster, more thorough cleanup of blood and fluids
- Increase system uptime by protecting table from spills and particulate contaminants
- Thermo-sealed seams and flaps prevent contaminate buildup in hard to clean areas

COMPATIBILITY

- VCT with GT 2000 Table, CT HD750

| 27 | 1 | Footswitch Slicker for CT HD750 and VCT Systems |

The footswitch slicker for CT VCT 2000 and 1700 systems is made of durable, clear PVC plastic that protects the footswitch and facilitates faster, more thorough cleanup of contamination caused by blood and other body fluids. Cover is held securely in place with Velcro...H

| 28 | 1 | TiP Applications CT Succeed Advance |

TiP Applications CT Succeed Advance training includes:
- 14 onsite days covered over 5 site visits
- 4 hrs TVA, 1hr per week
- 1 TiP Headquarter Class

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

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

| 29 | 2 | TiP HQ Class CT750HD - Full Service |

3.5 day CT course held in the Milwaukee area. Includes travel and

Item No. Qty	Description

modest living expenses.

This course is designed to introduce the technologist to the CT750HD system.

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