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TRADE-IN: YES INFO:  
MANUFACTURER: TOSHIBA  
MODEL:  
AQUILION 64i SN:  
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Item No.	Qty	Description
	<b>1</b>	<b>Revolution CT</b>
1	1	<p>Pricing Non-Disclosure Language</p> <p>This CONFIDENTIAL offer may not be shared with any third parties, buying evaluation groups or anyone not directly employed by customer. This offer is being extended in relation to a national show-site agreement, research partnership, or other non-standard transaction. If required for publishing, GE will happily provide a list price quote.</p>
2	1	<p>Revolution CT EX Configuration</p> <p>Revolution CT EX configuration is a breakthrough that delivers high-definition image quality and unique clinical capabilities through the convergence of coverage, spatial resolution, temporal resolution and dose performance – all in one. Until now, CT users have had to compromise between systems that could only provide a sub- set of these capabilities.</p> <p>The Revolution CT delivers industry leading technical specifications for a premium CT system, including:</p> <ul style="list-style-type: none"><li>• VHD reconstruction, 3D Collimator, and focal aligned detectors provide high-definition image quality, while overcoming the challenges of typical wide detector systems such as cone beam artifacts, HU uniformity, scatter and beam hardening artifacts.</li><li>• ASiR-V provides integrated advanced iterative reconstruction technology that reduces noise and reduces low-signal streak artifact at very low signal levels. This technology is designed to deliver reduced noise levels, improved low contrast detectability and may enable a reduction in dose for all clinical applications. 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.</li></ul> <p>A consultation with a radiologist and a physicist</p>

Item Qty No.	Description
	<p>should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task.</p> <p>Clinical Highlights</p> <p>(To achieve the full benefits described below, an AW workstation or server with post processing tools may be required. Please consult with your GE sales representative)</p> <p>Cardiovascular</p> <ul style="list-style-type: none"> <li>• One-Beat , High definition, motion free coronary images at any heart</li> <li>• Whole heart coverage at 160 mm allowing temporal and contrast uniformity across the whole volume.</li> <li>• Smart Phase: Analyzes the motion of the coronaries throughout the volume to auto-select the best cardiac phase with the least motion.</li> <li>• SnapShot(TM) Freeze temporal enhanced acquisition: A Intelligent motion correction acquisition technique that is designed to provide a 6x reduction of motion-blur while maintaining high spatial resolution and is demonstrated in cardiac phantom testing. The reduction in motion artifacts is comparable to a 0.058s equivalent gantry rotation speed with effective temporal resolution of 29 msec, as demonstrated in mathematical phantom testing.</li> <li>• Arrhythmia management: The system can monitor and alert the user to these situations and also recommend turning on a challenging patient mode. This mode avoids scanning during an irregular beat and can further rescan during the next regular beat using the same contrast bolus.</li> <li>• Best-in-class spatial resolution at 18.2lp/cm in z-direction and 14.8lp/cm in X-Y direction (measured at 2% MTF).</li> </ul> <p>This spatial resolution provides clear images to help the physician with tasks such as accurately</p>

Item Qty No.	Description
	<p>quantifying stenosis in coronary and other vascular structures.</p> <ul style="list-style-type: none"> <li>• One-Beat, comprehensive cardiac assessment allows for acquiring motion free coronaries, rest or stress perfusion and functional data in a single beat , giving you a comprehensive assessment and potentially reducing the need for additional imaging tests. Integrated beam hardening reduction capabilities allows for accurate perfusion assessment. The ability to perform stress perfusion with motion free CCTA in a single exam can potentially reduce unnecessary dose by not requiring a rest perfusion exam in case no defects are found in the stress perfusion.</li> <li>• Whole organ dynamic perfusion: This allows perfusion acquisition of the heart or other organs and tissues with uniform contrast along with integrated beam hardening reduction. The scanner also allows for a flexible aperture size and sampling rate during dynamic perfusion acquisitions. Revolution CT also allows for the ability to acquire a prospectively gated dynamic perfusion acquisition of the whole heart using up to 16 cm of coverage.</li> <li>• The scanner is also capable of 4D imaging to acquire morphology and perfusion information from a single exam. This can help assess conditions such as congenital heart disease and visualize blood flow through vascular structures.</li> <li>• TAVR planning: Dedicated TAVR/TAVI protocols allow for mixed acquisitions of the heart, aorta, and femoral arteries, with ECG-gated axial scans and non-ECG- gated axial or helical scans, using only one injection of contrast media, covering 700 mm of anatomy in less than 10 seconds.</li> <li>• Calcium Scoring: The system also allows single beat acquisition for cardiac calcium scoring</li> <li>• Triple RuleOut™: The system allows for robust Triple Rule Out studies with motion free coronaries,</li> </ul>

Item Qty No.	Description
	<p>PE &amp; aorta evaluation in a single exam. The system can cover the entire thorax anatomy in less than three seconds to provide contrast uniformity at low dose.</p> <p>Neurology highlights</p> <ul style="list-style-type: none"> <li>• Routine non-contrast whole brain scans can be performed in a single rotation without moving the table. VHD reconstruction technology ensures CT number uniformity across the whole brain coverage. Iterative MMAR can reduce the beam hardening artefacts at bone / brain interface and posterior fossa region. Enhanced Contrast can achieve excellent grey white matter differentiation.</li> <li>• Smart Stroke, the stroke-dedicated hardware, software and post-processing solution on Revolution CT, can help physicians to reduce “CT scan-to-report” time and “door-to-treatment” time, thus to save more brain tissue of patient with stroke. (Post processing solutions are optional purchases)</li> <li>• Whole brain CT perfusion with 70kVp, ASiR-V, smart collimation and variable sampling can acquire temporally uniform dynamic blood flow information to achieve accurate volumetric perfusion values at lower dose.</li> <li>• Single phase or dynamic 4D whole brain CTA can be acquired within a single exam of whole brain CT perfusion to achieve comprehensive functional and anatomical assessment of the brain.</li> </ul> <p>Body highlights</p> <ul style="list-style-type: none"> <li>• Whole organ diagnosis and follow-up of organs such as the liver, kidneys, and pancreas is enabled by dynamic acquisition modes. The scanner can also acquire multiple images at the same location over time to provide a 4D view to assess vascular flow to these organs.</li> <li>• Fast body scans enabled by multi-volume 16cm</li> </ul>

Item Qty No.	Description
	<p>acquisition with excellent image quality allows for reduced breath hold times and shallow breathing. Dose is minimized through the ability to select collimations between 5 mm and 160 mm personalized to each patient.</p> <ul style="list-style-type: none"> <li>• Low Dose Lung Cancer Screening protocols</li> </ul> <p>Emergency &amp; Trauma</p> <ul style="list-style-type: none"> <li>• The system allows for robust Triple RuleOut™ acquisition for all patients providing One-Beat , high definition, motion free coronaries, PE and aortic dissection in a single exam covering the entire thorax in less than three seconds. ECG gating and mA modulation along with flexible collimations enable low dose acquisition personalized to the patient.</li> <li>• Flexible scanning modes with 160 mm axial scan, 80 mm helical scan, table speeds as fast as 300 mm/s, and short inter-group scan delay allows for ultra-fast and versatile whole body and multi-group scanning, thus reducing the effect of breathing and other motion during the poly trauma scan.</li> <li>• Smart Trauma with clinical ID can enable recon priority for trauma scans, prospective DMPR settings and faster reconstruction throughput.</li> </ul> <p>Pediatrics</p> <ul style="list-style-type: none"> <li>• Split second pediatric trauma acquisition of abdomen/pelvis is enabled by wide 160 mm z-coverage, thus reducing the need for sedation and eliminating unnecessary repetition of rescanning young children due to failed sedation, as is the case in 29% of conventional exams, shown in a large trial (British Journal of Anesthesia, 84 (6), 743-8 (2000))</li> <li>• 70kV scan mode allows for minimizing dose to pediatric patients while preserving excellent contrast to noise ratio and image quality.</li> </ul> <p>Musculoskeletal Imaging</p> <ul style="list-style-type: none"> <li>• The Revolution CT can acquire high definition</li> </ul>

Item Qty No.	Description
	<p>images of the bone with excellent details.</p> <p>Multi-Material Artifact Reduction (MMAR) technology can significantly reduce artifacts from metal objects such as screws and plates.</p> <ul style="list-style-type: none"> <li>• 4D dynamic imaging mode can acquire kinetic studies to assess joint articulation up to 16cm coverage.</li> </ul> <p>Dual Energy Capability</p> <p>Revolution CT features protocols which allow easy configuration of back to back Axial or helical scans of the same anatomy my at two different X-ray energies (kVp's). To further improve registration accuracy patient immobilization may be utilized. The additionally acquired dual energy data can be post-processed on AW Workstation using Add/Sub function to gain additional clinical information.</p> <p>Key Hardware Components</p> <p>Gemstone Clarity Detector</p> <p>The Gemstone Clarity detector features a unique focally aligned layout of the detector sub-modules and a 3D collimator (post patient) to minimize scatter artifacts, ensure HU uniformity &amp; reduce beam hardening artifacts associated with wide coverage systems. Combined with VHD reconstruction technology, the system delivers excellent image quality at full 160 mm coverage to enable whole organ imaging. The Gemstone Clarity detector also features a revolutionary ultra-low capacitance photo diode with new ASIC technology that redefines electronic noise at the quantum limit to less than 3 photons @ 120 keV (3100 electrons). The detector includes acquisition electronics which allow 4x faster bandwidth and 3x faster trigger rate than previous generations and reduces electronic noise by 25% which may improve image quality and reduce artifacts in low signal conditions as may be encountered in large patients. 3D Collimator Scatter Reduction Technology reduces scatter to</p>

Item Qty No.	Description
	<p>primary ratio by more than 50% (R Melnyk, J Boudry, X Liu, and M Adamak, "Anti-scatter grid evaluation for wide- cone CT," Proc. of SPIE, Vol. 9033, 90332P1-7, 2014) and results in significant improvement in image quality and reduction in beam hardening and metal artifacts.</p> <p>Gemstone Clarity detector specifications:</p> <ul style="list-style-type: none"> <li>• Z-Coverage/360 degree rotation: 160 mm</li> <li>• Number of slices: 512</li> <li>• Number of detector rows: 256</li> <li>• Number of detector elements: 212,992 cells with individual electronic/DAS channels</li> <li>• Sampling rate: Up to 2,496 views per rotation (Up to 8914 Hz)</li> <li>• Electronic noise: less than 3 photons noise (3100 electrons)</li> <li>• Effective analog to digital conversion range &gt;2,000,000:1</li> <li>• Scintillator speed: 0.03us (100 times faster than GOS)</li> <li>• Afterglow: 0.001% (4 times lower than GOS)</li> <li>• Radiation damage: 0.03% (20 times less than GOS)</li> <li>• Scatter to Primary Ratio: &lt;10%</li> <li>• Detection efficiency: 98% @ 120 kV</li> </ul> <p>Performix HDw tube</p> <p>The Performix HDw tube is a next generation anode-grounded, metal-ceramic x-ray tube. The tube enables improved spatial resolution via dynamic in-plane focal spot deflection and independent control of the focal spot size in both X and Z-axis which optimizes the focal spot to deliver consistent beam quality across the full 160 mm Z-axis coverage, making it one of the most innovative CT tubes offered today. The design is optimized for exams requiring a large number of scans without tube cooling. It is powered by an</p>

Item Qty No.	Description
	<p>onboard high frequency generator capable of ultra-fast kVp switching. Due to the ultrashort exposure times associated with wide coverage scanning, traditional metrics related to tube cooling such as anode heat content &amp; cooling rate lose their relevance. The GE Performix HDw tube includes a standard license that automatically enables the use of tube dependent advanced applications. The use of a third party X-ray tube will require an additional license for the activation of these features.</p> <p>Ultra-fast kV Switching Generator</p> <p>The new generator features 3x faster rise and fall times for kV switching compared to previous generator. This would allow for more time to be spent at the target energy levels and result in better energy separation between the datasets acquired at different kV levels using fast kV switching.</p> <ul style="list-style-type: none"> <li>• Generator maximum peak power: 103 kW</li> <li>• Tube current range: 10-740 mA with 5 mA increments</li> <li>• Tube voltage: 70, 80, 100, 120, 140 kV. Automatically selected through kV Assist based on patient body habitus and examination type</li> <li>• Max x-ray tube assembly heat content: 5.0 MJ (6.8 MHU)</li> <li>• Max continuous heat dissipation: 3.0 kW</li> <li>• Focal spot size according to IEC 60336/2005: 1.0 x 0.7mm, 1.6 x 1.2mm, 2.0x1.2mm</li> </ul> <p>Gantry and Slipping</p> <p>Revolution CT's gantry platform has been designed from the ground up to support the demands of today's scanning environment. Exclusive Whisper Drive system technology reduces audible noise during gantry rotation at 0.28s by more than 50% compared to a typical belt driven system thus improving patient comfort (audible gantry noise is measured at 69 dBA).</p>



Item Qty No.	Description
	<p>The contactless slipring transfers power and data to and from the rotating side of the gantry (slip ring) to the stationary side through contactless RF technology. This eliminates carbon dust due to brush wear- out in typical CT systems thereby increasing the reliability of the system. In addition, the gantry frame features redundant fail-safe mounts for all major components that is designed and tested to stringent standards to ensure safe and reliable operation even at fast rotation speeds.</p> <ul style="list-style-type: none"> <li>• Aperture: 80 cm</li> <li>• Focus-to- detector Distance: 109.7 cm</li> <li>• Focus-to- isocenter Distance: 62.6 cm</li> <li>• Scan FOV: 50 cm</li> <li>• Rotation speeds: 0.28s, 0.35s, 0.5s, 0.6s, 0.7s, 0.8s, 0.9s, 1.0s per 360° acquisition</li> <li>• Temporal resolution: 140ms cardiac temporal resolution without using SnapShot Freeze. 29ms effective temporal resolution using SnapShot Freeze.(As demonstrated in mathematical phantom testing)(AW workstation or server with CardIQ Xpress 2.0 required to process SnapShot Freeze data)</li> <li>• Data chain bandwidth: 40 Gbps</li> <li>• Table and gantry control panels: Define both internal and external scan planes to +/- 1 mm accuracy. Activated any time during exam (with tube stationary)</li> <li>• Front and rear integrated gantry LCD Display: Display patient information, ECG data from the integrated ECG module, built-in patient breathing lights and countdown timer, cardiac gating indicator light and patient information videos</li> <li>• Flexible cable manage system with coordinated straps attached to the gantry sides to keep cables connected to the gantry away from the floor and to reduce clutter</li> </ul>

Item Qty No.	Description
	<p data-bbox="496 405 691 432">Operator Console</p> <p data-bbox="496 449 1008 583">The Revolution CT scanner desktop allows simultaneous scanning, image reconstruction, display, processing and analysis, as well as networking and archival.</p> <p data-bbox="496 600 1073 884">It features the new "Clarity Operator Environment" designed with your everyday needs in mind. The environment allows for more real time adaptive capabilities thus enabling dramatical- ly improved timing with Smart Prep including automatically transitioning to acquisition in as quickly as 1 second when the set HU threshold is reached. The benefits provided by the new interface include:</p> <ul data-bbox="496 900 1081 1797" style="list-style-type: none"> <li data-bbox="496 900 1081 1142">• Smart prescription workflow automates scan set up by recommending scan parameters specific to the patient based on scout attenuation and ECG information, in the case of cardiac, to enable consistent image quality &amp; dose performance across scans, irrespective of the technologist expertise level</li> <li data-bbox="496 1159 1036 1293">• Seamless multi-tasking through ability to have multiple patient sessions open with one active patient for acquisition and the rest for post-acquisition tasks</li> <li data-bbox="496 1310 1068 1451">• "Plan ahead" task list as part of scan setup automates repetitive tasks such as reconstructions, image transfer, image processing, etc. without requiring technologist intervention</li> <li data-bbox="496 1467 1073 1606">• Ability to prospectively prescribe multi planar reconstructions for anatomies such as spine as part of the protocol, thus automating the workflow seamlessly</li> <li data-bbox="496 1623 1068 1719">• Clear status visibility across all automated patient tasks without any interaction enables you to focus on the primary task at hand</li> <li data-bbox="496 1736 1081 1797">• Manage your patient flow better with the ability to pre- pare scan prescription for the next patient while</li> </ul>

Item Qty No.	Description
	<p>the current patient is getting off the table</p> <ul style="list-style-type: none"> <li>• Quickly select scan protocols through global search, anatomical selection or user specific favorites in the newly designed protocol management system</li> <li>• Facilitates protocol consistency by controlling access to changes and simplifying inputs required</li> <li>• Integration with AW allows prescribing automatic image processing steps to be performed on the AW / AW Server post acquisition</li> <li>• Better dose awareness through clearly visible real time projected dose indicator for the selected protocol</li> </ul> <p>Operator console specifications</p> <ul style="list-style-type: none"> <li>• Intel Xeon performance processor: 2.60GHz/8-Core CPU (or equivalent)</li> <li>• Nvidia high performance GPU (or equivalent)</li> <li>• 64 GB DDR3 unbuffered ECC (or equivalent)</li> <li>• 24 inch dual monitors with screen resolution of 1920x1200</li> <li>• Image data storage up to 700,000 uncompressed DICOM images (512x512)</li> <li>• Scan data storage of 1 TB (up to 1500 scan files are supported)</li> <li>• DVD-ROM (supports DVD-R, DVD-RW, DVD+R, DVD+RW, DVD+R DL, CD-R, CD- RW)</li> <li>• USB 3.0 Port for External Hard Disk Drive Connectivity (scan data storage and image data storage are supported)</li> <li>• Recon Server Xstream enables recon task parallelism and achieves up to 1.8x faster reconstruction throughput than Recon Server Pro</li> <li>• Image reconstruction speed up to 65 fps with FBP and up to 25 fps with ASiR-V.</li> </ul> <p>System Software</p> <p>Smart Flow</p>

Item Qty No.	Description
	<p>Simplified, automated scan prescriptions, personalized to the patient and easy-to-use reference protocols make the Revolution CT fast and efficient in patient set-up, prescription &amp; scanning. The following features further help you streamline your workflow.</p> <p>Protocol Management System</p> <p>Protocols can be copied, built and edited intuitively using the Protocol Management System.</p> <ul style="list-style-type: none"> <li>• GE Reference Protocol: A set of predefined protocols for adult patients that cannot be modified but can be copied and used. These protocols are factory installed. They have been developed in collaboration with clinical partners to provide users with a convenient and clinical relevant starting point for tailoring your departmental protocols.</li> <li>• Recently Scanned Protocols: A copy of the last 90 protocols reside exactly as they were used for review purposes only. These protocols can also be copied and used within into your departmental protocols.</li> <li>• Anatomical Selector: Use the Anatomical Selector area to select a specific anatomical region to show only protocols related to that region.</li> <li>• Favorites: A user can add to a list of favorite protocols commonly used by your site.</li> </ul> <p>Clinical ID</p> <p>Clinical ID is designed to streamline the clinical application specific workflow from protocol setup to reconstruction prioritization and automated reformatted views for timely diagnostic decisions.</p> <p>AutoVoice™</p> <p>Auto Voice provides recorded breathing instructions for the patient. Consistent breathing instructions assist with more precise timing during an exam. Auto Voice also provides a pre- message in the SmartPrep feature. The system also comes equipped with microphones at the console and</p>

Item Qty No.	Description
	<p>gantry for communicating with the patient. The system has three, pre-recorded messages in ten selectable languages that cannot be deleted. You can also record up to 17 additional messages for each language. Default language options include: Chinese, English (Female) , English (Male), French, German, Italian, Korean, Japanese, Spanish (European), Spanish (Latin America).</p> <p>Smart Patient Centering</p> <p>The smart patient centering feature helps to detect suboptimal centering prior to the diagnostic scan. When scout is acquired, the system will assess patient centering. If the patient is off-centered greater than 2 cm, the system will display the table height location and an up or down arrow to indicate the elevation needed to reach that height.</p> <p>SmartStart (TM)</p> <ul style="list-style-type: none"> <li>• Gantry-mounted start scan button and countdown display,</li> <li>• Facilitates single-technologist operation by allowing start of scan at the gantry, with a visual reminder of time until X-ray initiation</li> </ul> <p>SmartPrep™ with Dynamic Transition</p> <p>Enables real-time monitoring of IV contrast and a user-selectable mode to dynamically transition to the diagnostic scan phase when a user entered Enhancement Threshold is reached in the Transition ROI.</p> <p>Trauma Patient entry</p> <p>Allows patient scans and image display/analysis without entering patient data before scanning.</p> <p>Prospective Exam Split</p> <p>Prospective Exam Split allows operator to specify how to split images from a scan into separate requested procedures/accession numbers in protocol management. This capability is especially useful in cases of full body trauma or for chest,</p>

Item Qty No.	Description
	<p>abdomen and pelvis exams. Prospective Exam Split works with primary, secondary and reformatted images.</p> <p>Smart DMPR</p> <p>Smart DMPR can automatically generate reformatted views with prospectively set window width and window level and automatically transferring these image datasets to the designated PACS destination for fast review and diagnosis.</p> <p>Digital Tilt</p> <p>The system has preset protocols that can be selected prospectively, which allows images to be reconstructed at a specified tilt angle. This capability, combined with organ dose modulation and tilted head holder accessory for the patient allows for reducing the dose to sensitive organs such as the eyes while also reducing dental artifacts.</p> <p>Enhanced Xstream Injector (Requires a compatible Bayer or Nemoto Injector system)</p> <p>The Enhanced Xstream Injector provides synchronization of the start of the scan and the start of the contrast injector using the start scan button on the Scan Control Interface or the gantry controls. The Enhanced Xstream Injector also allows setting of the contrast injector parameters within the CT scan protocol and creation of an Injector Report at End Exam of what was delivered by the injector. The system and injector are operated independently after the start scan button is pressed on the system.</p> <p>System Software</p> <p>Volume High Definition Reconstruction</p> <p>The system features state of the art image reconstruction technology designed to mitigate cone beam artifacts associated with wide coverage systems. In addition, the algorithm preserves temporal uniformity and provides excellent image</p>

Item Qty No.	Description
	<p>quality at full 160 mm coverage. It further reduces variation in iodinated contrast HU uniformity across the full 160 mm Z coverage, typically caused due to heel effect. In addition, Multi-Material Artifact Reduction (MMAR) technology utilizes material physics learnings from GSI incorporated in single energy acquisition. In conjunction with the 3D Collimator, this reduces beam hardening artifacts due to iron, bone, metal &amp; other dense objects.</p> <p>Iterative Reconstruction: ASiR-V</p> <p>Integrated advanced iterative reconstruction technology (ASiR-V) reduces noise, even at very low signal levels. The ASiR- V algorithm focuses primarily on the modeling of the system noise statistics, objects, and physics and de-emphasizes the modeling of the system optics. The most time-consuming portion of the IR process is the modeling of the system optics. By excluding the most time-consuming component, system optics, and focusing on the other terms during the IR process, significant image quality improvement can be achieved with- out paying a large penalty in reconstruction speed. The advanced system noise model includes the modeling of the data acquisition system (photon noise and electronic noise) as well as noise characteristics of the reconstructed images. The photon noise model includes characterization of the photon statistics as it propagates through the imaging chain. The modeling of the reconstructed image noise includes characterization of the scanned object, using information obtained from extensive phantom and clinical data. This technology is designed to deliver reduced noise levels, improved low contrast detectability and may enable up to 82% reduction in dose when compared to FBP for all clinical applications.</p> <p>Smart Dose technologies</p>

Item Qty No.	Description
	<p>Automatic Exposure Control (AEC)</p> <p>AEC is a versatile and powerful tool designed to tailor the scanner's radiation output to each patient based on the patient's size, age, shape and attenuation and the user's requested level of image noise/quality criterion. AEC technology uses estimated patient attenuation values to adjust the mA dynamically in order to achieve the requested level of image noise/quality criterion.</p> <p>3D Dose Modulation Utilizing SmartmA</p> <p>Volumetric knowledge prior to scanning allows you to personalize protocols and optimize dose for every patient, large and small. During the scan, real-time, 3D dose modulation helps deliver consistent image quality because it automatically accounts for the changing dimensions of your patient's anatomy. In addition, the system provides guidance to assist in centering the patient to maximize the benefit of mA modulation.</p> <p>Organ Dose Modulation</p> <p>Organ Dose Modulation (ODM) builds on the SmartmA feature to enable even further patient dose reduction. By reducing the mA exposure profile as a function of the X-ray tube angle, radiosensitive organs towards the anterior surface of the patient, such as the eyes, breasts and thorax, can benefit from enhanced dose reduction while the overall image noise is still maintained.</p> <p>kV Assist</p> <p>kV Assist makes it easy to select optimal kV settings for the patient being scanned. It recommends tube voltage and current to achieve the lowest dose while meeting desired image quality goals.</p> <p>70 kV Scanning</p> <p>70 kVp scan mode enables low dose pediatric and small patient scans</p> <p>CG Modulated mA</p> <p>For cardiac applications, prospective ECG dose</p>



Item Qty No.	Description
	<p>modulation automatically adjusts the mA to minimize the patient's exposure to X-rays – reducing mA, and thus dose, near the beginning and end of each prescribed phase range. Up to 3 phase ranges are selected within a heart cycle with different mA levels. The peak mA for the first phase range is automatically determined based on noise index set by the user. The user can also select the relative mA level for an optional second or third phase range, set as a percent of the mA level of the first phase range. This provides clear images and allows you to reduce dose yet provides motion free, high quality images for functional and anatomical analysis within a heart cycle</p> <p>Color Coding for Kids</p> <p>Based on the Broselow-Luten Pediatric System, the Color Coding for Kids was developed to help operator to select the correct pediatric CT protocol. The system divides the protocols into nine color zones based on height and weight, and incrementally increases scan technique as the patient's size increases. This arrangement of protocols assists you in reducing the variations in pediatric protocol selection. If the patient weight is unavailable, a Broselow-Luten Tape can also be used to obtain the weight based on the length.</p> <p>Smart Dose technologies</p> <ul style="list-style-type: none"> <li>• Smart Track: Advanced hardware and software for X-ray beam tracking minimizes patient dose.</li> <li>• Smart Beam: Optimizes X-ray beam filtration independently for body, head, and cardiac applications.</li> <li>• Soft Shutter: This capability reduces the over-beaming dose in helical scans by using an advanced reconstruction algorithm for helical scans that makes better use of acquired data through intelligent view weighting and back projection.</li> <li>• Dose Check: Provides the user with tools to help</li> </ul>

Item Qty No.	Description
	<p>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 Association (NEMA). Dose Check provides the following:</p> <ul style="list-style-type: none"> <li>o Checking against a Notification Value if the estimated dose for the scan is above your site established value</li> <li>o 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</li> <li>o The ability to define Alert Values for Adult and Pediatric with age threshold</li> <li>o Audit Logging and Review capabilities</li> <li>o Protocol Change Control capabilities provided by robust protocol management interface</li> </ul> <p>- DoseWatch Explore is an introductory dose management software application that provides you secure access, via any PC with internet access, to dose and protocol data from this system. An InSite connection to the system and completion of the registration process is required to use the DoseWatch Explore application. For US and Canadian Customers, this quotation includes access to the DoseWatch Explore application for a period of time concurrent with the system warranty.</p> <ul style="list-style-type: none"> <li>• Dose Computation, Display &amp; Reporting: CTDIvol (CTDI volume), DLP (Dose Length Product), and Dose Efficiency computation and display during scan prescription provide dose information to the operator. Dose Reporting saves the CTDIvol, DLP, and phantom type in a DICOM Structured Dose Report and a secondary screen capture. Series and cumulative exam values are saved. Saved values can be networked or archived.</li> </ul> <p>DICOM Interchange</p>

Item Qty No.	Description
	<p>DICOM Interchange allows the saving of any image from the database, along with a PC viewer using Internet Explorer, to a CD-R or DVD-R with- out marking the exam/series or image as archived for exam transfer between stations that are not networked or pass along to referring physicians or patients. For detailed information, please reference DICOM conformance statement.</p> <ul style="list-style-type: none"> <li>• DICOM Storage Service Class</li> <li>• Service Class User (SCU) for image send</li> <li>• Service Class Provider (SCP) for image receive</li> <li>• Service Class User (SCU) for storage commitment</li> <li>• DICOM Query/Retrieve Service Class</li> <li>• DICOM Modality Worklist</li> <li>• DICOM Modality Performed Procedure Step</li> </ul> <p>Image Networking</p> <p>Exams can be selected and moved between the Revolution CT and any imaging system supporting the DICOM protocol for network send, receive and pull/query. Image transfer time using DICOM protocols is &gt; 16fps on a 1000baseT network.</p> <p>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.</p> <p>This product complies with the performance standards of 21 CFR, sub-chapter J, and the applicable IEC 60601-1 series.</p> <p>This product complies with NEMA Standard XR29-2013 / MITA Smart Dose Standard.</p> <p>See the Pre-Installation manual for details of the</p>

Item No.	Qty	Description
		siting requirements for GE Revolution CT.
3	1	Rev CT English keyboard English keyboard
4	1	REVOLUTION STD CABLE SET Standard cable set for Revolution CT system
5	1	Revolution CT Table  Revolution CT features a next generation patient table capable of 500 lbs (227 kg) table load and 2000 mm scan range. The table also features: # Maximal metal free horizontal scannable range: 2000 mm # Maximal horizontal travel speed: 300 mm/s (standard) (437.5 mm/s optional with Hyperdrive) # Horizontal positioning accuracy +/- 0.25 mm from any direction # Motor-driven table height adjustment from min. 550 mm to max. 1030 mm # Maximal vertical travel speed: 40 mm/s # Control elements on both sides on front and rear gantry control panels. Table height can be controlled alternatively by means of foot switch (2 each on both sides of the patient table) # Integrated ECG module with waveform and configuration through the gantry display # Workflow hub area with a see-through tray to give you the most flexibility in placing scanning related supplies, etc. without limiting visibility to the integrated ECG inputs. # IV Pole integrated at the foot-end of the table helps to prevent IV lines from becoming crossed and tangled, and helps keep lines in place during patient table travel.

Item No.	Qty	Description
6	1	<p data-bbox="495 407 1065 466">Low Dose CT Lung Screening Option with Indication For Use</p> <p data-bbox="495 493 1081 1024">This option provides lung screening reference protocols that are tailored to the CT system, patient size (small, average large), and the most current recommendations from a wide range of professional medical and governmental organizations. Now, qualified GE Healthcare CT scanners with this option are formally indicated for, and can be confidently used by physicians for low dose CT lung cancer screening of identified high-risk patient populations. These protocols deliver low dose, short scan times, and clear and sharp images for the detection of small lung nodules. Early detection from an annual lung screening with low dose CT in high-risk individuals can prevent a substantial number of lung cancer-related deaths.</p> <p data-bbox="495 1037 1081 1461">All new GE 64-slice and greater CT scanners, and virtually all of the 16-slice CT scanners that GE Healthcare sells are qualified for this screening option. This solution is also available to thousands of qualified GE CT scanners currently in use, increasing access to the quality scanners that satisfy both patient and physician needs. The new protocols, do include the choice for the user to be able to utilize GE Healthcare's industry-leading technologies such as ASiRTM, ASiR-VTM and VeoTM that are designed to reduce image noise, which is undesirable for physicians looking for small nodules.</p> <p data-bbox="495 1474 1071 1606">This option contains two documents. Lung Cancer Screening Option Reference Protocol Guide, and the Lung Cancer Screening Option User Manual / Technical Reference Manual</p> <p data-bbox="495 1619 1065 1824">i) The following GE Healthcare CT scanners are qualified to receive the new low dose CT Lung Cancer Screening Option: LightSpeed 16, BrightSpeed Elite, LightSpeed Pro16, Optima CT540, Discovery CT590 RT, Optima CT580, Optima CT580 W, Optima CT590 RT, LightSpeed Xtra, LightSpeed</p>

Item No.	Qty	Description
		<p>RT16, LightSpeed VCT, LightSpeed VCT XT, LightSpeed VCT XTe, LightSpeed VCT Select, Optima CT660, Revolution EVO, Discovery CT750 HD, Revolution HD, Revolution CT, Revolution Frontier.</p> <p>ii) Moyer V. Screening for Lung Cancer: U.S. Preventive Services Task Force Recommendation Statement. Ann Intern Med. 2014;160:330-338. <a href="http://www.uspreventiveservicestaskforce.org/Page/Document/RecommendationStatementFinal/lung">http://www.uspreventiveservicestaskforce.org/Page/Document/RecommendationStatementFinal/lung</a></p>
7	1	<p>Enhanced Xstream Integrated Injector Interface Kit - Class IV</p> <p>Xstream Injector provides one handed synchronized start of the scan and injection from the CT Operators console or from the scan room providing consistent simultaneous start of contrast injection and scan acquisition protocols.</p> <p>It utilizes the CiA Class 4 functionality which includes the following benefits:</p> <p>Up to a 50% reduction in the number of user interface selections needed when compared to systems not utilizing the Xstream Injector. The 50% reduction comes from the fact that users select one button to start the scan acquisition and injection.</p> <ul style="list-style-type: none"> <li>o Better control of contrast enhancement by synchronizing start time of the contrast injection and CT scan</li> <li>o Improved workflow by enabling single-button start of both the injector and scanner from the scanner</li> <li>o Injection parameter preview from the scanner console prior to beginning the scan</li> <li>o Post-study review of injection results from the scanner console</li> <li>o Automatic documentation of injection results in PACS.</li> </ul>
8	1	<p>GSI Xstream on Revolution CT</p> <p>GSI Xstream is the first volume spectral CT technology with integrated and simplified workflow you can make part of your daily practice.</p>

Item Qty No.	Description
	<p>GSI Xstream utilizes ultrafast kVp switching x-ray source (0.25msec switching between two different energy levels of X-rays from view to view during a single rotation) and ultra-fast response Gemstone Clarity Detector to acquire almost perfectly registered volumetric dual energy CT data. The data is then processed through projection domain material decomposition algorithms to generate material density maps (MD), monochromatic images (MC) and virtual unenhanced images (VUE). This data can be utilized to identify material specific differences in attenuation in terms of Water, Iodine, Calcium, Uric Acid, Fat and Hydroxyapatite (HAP) basis-pair images, allowing monochromatic and material representations. Metal Artifact Reduction (MAR) algorithms can also be applied to all GSI images to reduce artifacts due to the presence of metal.</p> <p>GSI Xstream can provide:</p> <ul style="list-style-type: none"> <li>• Nearly perfect temporal and spatial registration to avoid mis-registration artifacts due to motion in dual energy CT (0.25ms)</li> <li>• Advanced material differentiation, classification and quantification</li> <li>• Optimization of contrast-to-noise ratio (CNR) by using monochromatic images</li> <li>• Reduction in artifacts due to beam hardening and metal.</li> <li>• Volume GSI Acquisition across 80 mm collimation with 50 cm FOV</li> <li>• 245mm/s GSI scan speed with 1.5:1 pitch</li> <li>• Dose neutral with ASiR-V integration</li> <li>• Integrated with GE's Smart Technology suite of workflow tools: GSI Assist and Clinical ID standardize and automate protocol selection, including direct transfer to PACS</li> <li>• Parallel processing of GSI images with Recon</li> </ul>

Item No.	Qty	Description
9	1	<p>Server Xstream for improved workflow</p> <ul style="list-style-type: none"> <li>• 10 Native GSI recons: keV, VUE, MD: Iodine, MD: Water, MD: Calcium, MD: Fat, MD: Uric Acid, MD: HAP, GSI MAR, 140kVp with automatic network to PACS and AW GSI viewer when needed.</li> </ul> <p>Revolution CT SmartStep with Monitor Fluoro Package</p> <p>SmartStep for Revolution CT enables an imaging mode for performing biopsies and other interventional procedures. A 24 inch in-room monitor, hand held controller, X-ray exposure foot pedal and cradle handle provide in-room control for image acquisition and image review.</p> <p>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 pedal provides in-room control of X-ray exposure.</p> <p>A highly functional image display presents a set of 3 Interventional Images in 3 viewports, a viewport for scout and localizer, a free viewport, and timers for the remaining and accumulated time, real time dose information. The display control panel provides roam, zoom, magnify, measurement, annotation, grid, image orientation, and save screen image review capabilities.</p> <p>SmartStep for Revolution CT utilizes a cine pulse acquisition mode using 5 mm (8x0.625 mm), 10 mm (16x0.625 mm), and 20 mm (32x0.625 mm) detector configurations. All kVp stations (from 70kVp to 140kVp) and scan fields of view are compatible. Prospective image reconstruction includes 1i mode, overlap 3i mode and non-overlap 3i mode.</p> <p>System Includes the In-room Monitor &amp; Boom.</p>



Item No.	Qty	Description
10	1	Chair Chair for CT scanner
11	1	Revolution Desk - Adjustable Revolution Desk - Adjustable
12	1	CT Seismic Anchorage CT Seismic Anchorage (All)
13	1	Revolution CT gantry and table seismic kit Revolution CT gantry and table seismic kit includes the hardware necessary for states that require seismic mounting.
14	1	Uninterruptible Power Supply for CT systems Un-Interruptible Power Supply Un-interruptible power supply provides 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: <ul style="list-style-type: none"> <li>- Provides continuous protection to all of the system's major electronics subsystems</li> <li>- Protects the tube from power outages because it continues to provide power for tube cooling.</li> <li>- Minimizes system restart time by continuing to power the thermal control of the DAS and detector.</li> <li>- Provides enhanced ease of patient removal from the system by keeping the table powered.</li> </ul> This is compatible with the Revolution Frontier, Revolution HD, Revolution CT, Discovery CT 750HD and LightSpeed VCT systems.
15	1	CT Service Cabinet Service cabinet for system accessories storage
16	1	14 KVA 3-Phase Partial UPS for VCT

Item Qty No.	Description
	<p>The 14KVA Partial UPS has been specifically designed to coordinate with GE Healthcare CT &amp; PET/CT scanners. In the event of a power outage a partial system UPS provides continuous backup power to the scanner host and control computers, thus assuring no loss of usable scan data.</p> <ul style="list-style-type: none"> <li>o Critical circuits in the gantry and table remain powered which facilitate the safe removal of the patient from the scanner.</li> <li>o If power is restored within the battery hold-up time, the operator can continue scanner operations without the need to reboot the system.</li> <li>o When longer power outages are anticipated, the UPS provides time for the operator to safely remove the patient and complete an orderly shutdown of the system software</li> <li>o Maintains system electronics and allows critical scanner operations to continue for 10 minutes (typical) after loss of power</li> <li>o Protects electronics from under voltage, brownouts, line sags, over voltage and transients</li> </ul> <p>SPECIFICATIONS</p> <ul style="list-style-type: none"> <li>o Dimensions (H x W x D): 49" x 12" x 32"</li> <li>o Weight: 620 lbs.</li> <li>o Output Frequency: 50 or 60 Hz, auto-sensing</li> </ul> <p>NOTE: ITEM IS NON-RETURNABLE AND NON-REFUNDABLE</p> <p>NOTE: REMOVAL/DISPOSAL OF OLD UPS IS THE CUSTOMER'S RESPONSIBILITY</p> <p>NOTE: INSTALLATION AND RIGGING IS NOT</p>

Item No.	Qty	Description
17	1	<p>INCLUDED</p> <p>NOTE: CONTACT GE SERVICE OR EATON FOR START-UP ASSISTANCE</p>
		<p>Seismic Kit for E4502F and E4502KY UPS</p> <p>A seismic-rated kit designed to support E4502F (14kVA) and E4502KY (10kVA), our exclusive CT Partial UPS offerings.</p>
18	1	<p>CT Main Disconnect and UPS Control 380-480V 50 60Hz 125A</p> <p>Main Disconnect Panel (MDP) UL 125A 400/480V 50/60Hz 3 phases for CT, PET and PETCT</p> <p>The (Main Disconnect and UPS Control Panel serves as the main facility power disconnect source installed ahead of the CT system PDU. On systems where the optional partial system UPS is included in the system, the panel provides NEC mandated UPS emergency power-off control function via a UPS control cable included with the UPS. The optimized design PDB saves time, installation labor, and valuable mounting space by consolidating the main circuit breaker, control power source and required warning lights into a compact factory manufactured panel. The panel provides short circuit protection, overload protection and National Electrical Code and Canadian Electrical Code required emergency shutdown for the system. The 24-volt low voltage controls all power, using either the panel cover mounted EMERGENCY OFF push button or the remote EMERGENCY OFF push button included with each system. The PDB is painted to match the imaging system for a total coordinated system appearance. Available in a combination surfacesemi-flush mounted enclosure. The system provides stock availability of otherwise special-order devices, saving time and installation costs.</p> <p>Benefits</p> <ul style="list-style-type: none"> <li>• The System Main Disconnect saves time,</li> </ul>

Item Qty No.	Description
	<p>installation labor, and valuable mounting space by consolidating the main circuit breaker, the feeder overcurrent devices, magnetic contactors and UPS emergency power-off into one compact panel</p> <ul style="list-style-type: none"> <li>• The system provides stock availability of otherwise special-order devices, saving time and installation costs</li> <li>• Reduces installation time and cost by eliminating delays in obtaining individually enclosed components and by eliminating on site assembly</li> <li>• UPS emergency power-off functions are included for future, partial system UPS addition.</li> <li>• Disconnects system power on first loss of incoming power, preventing damage to system components</li> <li>• Provides a standardized platform for UPS or other future GE engineered modifications or upgrades</li> <li>• Main power disconnect operating handle can be padlocked in the OFF position for servicing safety and OSHA lock out/tag out</li> <li>• The door has provisions for padlocking</li> <li>• Enclosure door is interlocked with ON / OFF disconnect handle to prevent unauthorized access if disconnect is in the ON position</li> </ul> <p>Features</p> <ul style="list-style-type: none"> <li>• Optional partial system UPS provides clean uninterrupted power to the system computer, maintaining system integrity during power loss while also providing a solution to power quality problems</li> <li>• UL, cUL listed, and CE labeled</li> <li>• Supplied with low voltage, cover mounted Push to Stop, Twist to Restore pushbutton and long-life LED pilot lights</li> <li>• Provides overcurrent and short circuit protection with GE GuardEON solid-state circuit breakers</li> </ul>

Item Qty No.	Description
	<ul style="list-style-type: none"> <li>• Suitable for use on systems with 25,000A of short circuit current. It is the installer's responsibility to verify that the available short circuit current is 25,000A or less for compliance to all electrical codes</li> <li>• Emergency-off disconnects power to both the PDU and optional partial system UPS output, per National Electric Code</li> <li>• Factory wired and tested</li> <li>• All devices are selected for high reliability and long life</li> <li>• Panel disconnect provides OSHA lockout / tag out provisions</li> </ul> <p>Remote EPO</p> <ul style="list-style-type: none"> <li>• This MDP comes with two normally closed contact blocks attached to the back of the emergency off push button.</li> </ul> <p>Seismic Specifications</p> <ul style="list-style-type: none"> <li>• This Panel has been certified by an independent California structural engineer in conformance with the shake testing requirements of ICC-AC 156. The California OSHPD number is OSP-0457-10.</li> <li>• The seismic performance characteristics are as follows: SDS(g) # 2.56; z/h # 1.0 ; Ip # 1.5</li> </ul> <p>Physical Characteristics</p> <ul style="list-style-type: none"> <li>• Dimensions: Height x Width x Depth: 30 x 16 x 8 inches (762 x 407 x 203 mm)</li> <li>• Handle depth: 2.75 inches (70 mm)</li> <li>• Weight: 55 pounds (25 kg)</li> </ul> <p>Components supplied with each panel</p> <ul style="list-style-type: none"> <li>• The Main Disconnect and UPS Control Panel</li> <li>• An Installation, Operations &amp; Service Manual</li> <li>• (2) sets of Emergency Power Off pushbuttons with 2NC on each EPO</li> <li>• Drawings and Electrical Schematics</li> </ul>
19 1	MEDRAD ISI900G integration kit upgrade for a field installed Stellant D injector

Item No.	Qty	Description
		<p>ISI900G integration kit includes:</p> <ul style="list-style-type: none"> <li>• ISI900G module</li> <li>• ISI cables (2)</li> <li>• Power cord - American 12 ft. (3.6 m) or Continental 9.8 ft. (3 m)</li> <li>• 25' equipotential grounding cable (2)</li> <li>• Equipotential splitter</li> <li>• English user manual</li> <li>• Multi-language user manual</li> <li>• ISI 800/900 Module installation and Service manual</li> <li>• Field installation by Bayer</li> </ul>
20	1	<p>OCS III Mounting Plate</p> <p>OCS III Mounting Plate</p>
21	1	<p>MEDRAD Stellant D DualFlow ISI-ready on ceiling mount (85cm post length) with Certegra Workstation and ISI900G CT communication kit</p> <p>GE Healthcare now offers the Medrad Stellant D injector with Certegra workstation. The dual syringe CT injection system is reliable and easy to use. It features saline flush and DualFlow capabilities allowing users to test vein accesses with saline, and prime patient tubing with saline to save contrast. Medrad Stellant D CT Injection System users are armed with:</p> <ul style="list-style-type: none"> <li>• Automation features to help maximize throughput: integrated auto load, auto retract, auto prime and auto syringe sensing</li> <li>• Save up to 250 protocols</li> <li>• Quick, easy install and detachment</li> <li>• Check for air confirmation button and arming on the injector head</li> <li>• Pressure monitor graph and flow profile preview</li> <li>• Up to 6 phases including pause and hold</li> </ul>

Item Qty No.	Description
	<p>capabilities</p> <ul style="list-style-type: none"> <li>• Programmable pressure limit</li> <li>• Colour touch screen</li> <li>• Either ceiling counterpoise or pedestal-mount configurations</li> </ul> <p>Certegra Workstation</p> <p>From study set-up and preparation to study administration and results management, the Certegra Workstation serves as a workflow-centralized technologist interface to help users enhance efficiencies and patient care, enabling options such as P3T 2.0 (Personalized Patient Protocol) software environment.</p> <p>The benefits of DualFlow (simultaneous injection of contrast and saline)</p> <ul style="list-style-type: none"> <li>• Provide more uniform attenuation of the right and left ventricles</li> <li>• Minimize artefacts by achieving proper attenuation levels</li> <li>• Visualize the right coronary arteries and right ventricles in a single study by achieving more uniform attenuation</li> </ul> <p>MEDRAD Stellant D Certegra injector with Integrated CT Communication</p> <p>Designed to save time and increase CT scan throughput, the MEDRAD Stellant D with Certegra Workstation is validated for use with GE's Enhanced Xstream Injector option on selected scanners - enabling CAN Class 4 functionality for seamless communication. The resulting injector and CT scanner integration benefits include:</p> <ul style="list-style-type: none"> <li>• Reduced overall programming time</li> <li>• Improved scanner and injector protocol matching through programming of the injector from the scanner console</li> <li>• Better control over contrast injection procedure with a synchronized CT scan start time. A single</li> </ul>

Item Qty No.	Description
	<p>button-press on the scanner starts both the injector and scanner</p> <ul style="list-style-type: none"> <li>• Preview injection parameters before beginning the scan</li> <li>• Complete post-study reviews of injection results at the scanner console</li> <li>• Automatic documentation of the injection results in PACS System</li> </ul> <p>Ceiling-mount configuration includes:</p> <ul style="list-style-type: none"> <li>• Dual injector head on Overhead Ceiling Counterpoise</li> <li>• Syringe heat maintainer</li> <li>• Certegra Workstation with USB drive</li> <li>• DualFlow software</li> <li>• ISI-ready software</li> <li>• ISI900G CT communication kit</li> <li>• Base control unit</li> <li>• 22.8 m (75 ft) head extension cable</li> <li>• 7.6m (25 ft) base to display cable</li> <li>• Power cord, North America</li> <li>• Power cord, international</li> <li>• Product information package</li> <li>• Operations manual</li> <li>• Installation, customer's operational training at time of installation, and one year full on-site warranty in Bayer service countries</li> </ul> <p>System Specifications</p> <ul style="list-style-type: none"> <li>• Flow Rate (range &amp; increments): 0.1 to 10 ml/sec in 0.1 ml increments</li> <li>• Volume (range &amp; increments): 1 ml to syringe capacity in 1 ml increments</li> <li>• Programmable Pressure Limit 200 ml syringe: 325 psi, 2241 kPa</li> <li>• Scan delay: 0-300 seconds (5 minutes) in 1 second increments</li> </ul>



Item Qty No.	Description
22 1	<div data-bbox="496 405 1065 1115"> <ul style="list-style-type: none"> <li>• Pause: 1-900 seconds (15 minutes) in 1 second increments</li> <li>• Hold: maximum HOLD time is 20 minutes</li> <li>• Syringes (volume capacity): 200 ml sterile disposable syringe</li> <li>• Number of phases: 6</li> <li>• Number of protocols: 250</li> <li>• Electrical Requirements (VAC/Hz): 100-240 VAC, 50/60 Hz</li> <li>• Syringe Heat Maintainer Range: 35 °C +/-5, 95 °F +/-9</li> <li>• Dual Injector Head: 15.5 cm (6.1") H x 30.7 cm (12.1") W x 36.8 cm (14.5") D, 8.1 kg (17.0 lb) without syringe</li> <li>• Certegra Workstation (CWS): 34.2 cm (13.5") H x 40.0 cm (15.8") W x 30.0 cm (10.2") D, 8.0 kg (17.6 lb)</li> <li>• Base Unit: 29.2 cm (11.5") H x 27.9 cm (11.0") W x 22.2 cm (8.8") D</li> </ul> </div> <div data-bbox="496 1150 1081 1812"> <p>MEDRAD P3T 2.0 option bundle option - Cardiac, Abdomen and Pulmonary Angiography (PA) for Stellant Certegra workstation</p> <p>Certegra P3T 2.0 option is a contrast-injection that automates personalized contrast dosing at the point of care.</p> <ul style="list-style-type: none"> <li>• Save/recall Certegra P3T 2.0 software protocols in protocol manager</li> <li>• Create protocol pre-sets based on radiologist preferences</li> <li>• Enables generation of individualized contrast injection protocols, customized to the patient</li> <li>• Utilizes the power of DualFlow technology (simultaneous injection of contrast and saline) to obtain functional cardiac data</li> <li>• Increases consistency of individualized protocols amongst clinicians</li> </ul> </div>

Item Qty No.	Description
	<ul style="list-style-type: none"> <li>• Certegra P3T 2.0 (PA and Cardiac) Software are used for CT angiography of cardiac structures, coronary arteries, chambers of the heart, thoracic and abdominal aorta, and pulmonary vasculature</li> </ul>
23 1	<p>TABLE SLICKER FOR CT REVO</p> <p>The GEHC Revolution CT table slicker is specifically designed to maximize contaminant protection. Manufactured to be used in conjunction with the table restraining belts, this slicker adds versatility to your CT procedures. Latex free, it is strongly suggested that the slicker is cleaned with a water/bleach solutioj prior to every procedure.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>• Table gray cushion sealed in vinyl slicker Dimension 2403 x 788</li> <li>• Table extender gray cushion sealed in vinyl slicker Dimension 406 x 788</li> <li>• Cover for catheter bag hanger</li> <li>• Increase system uptime by protecting table from spills and particulate contaminants</li> <li>• Easy to install and comfortable for patients</li> <li>• Will not interfere with normal operation of CT table</li> <li>• Clear PVC plastic facilitates faster cleanup of blood and fluids</li> <li>• Prevents contaminant build up in hard to clean areas</li> <li>• Thermosealed seams and flaps</li> <li>• Recommended for trauma centers and sites concerned about exposure to blood and fluid-borne disease</li> </ul>
24 1	<p>FOOT SLICKER FOR CT REVOL</p> <p>The GEHC Revolution CT Foot Switch slicker is specifically designed to maximize contaminant protection. Latex free, it is strongly suggested that</p>

Item No.	Qty	Description
25	1	<p data-bbox="495 405 1040 470">the slicker is cleaned with a water/bleach solutioj prior to every procedure.</p> <p data-bbox="495 506 1040 569">TiP CT Imaging Academy Training: Revolution CT Core Training Package (New to Revolution CT)</p> <p data-bbox="495 594 1040 730">Training designed for users new to Revolution CT; package includes HQ, onsite and remote training options and involves a blended approach for continuous learning and skill building.</p> <p data-bbox="495 745 1073 1024">Training package includes partnership and planning discussions, console simulator user interface overview and protocol building sessions, CE accredited go-live, follow-up, and advanced training over the course of 24 onsite days, 1 HQ class, and up to 8 remote training sessions; additional CE accredited online and remote training is also included.</p> <p data-bbox="495 1045 1040 1108">Key components include Preparation, Pre-Onsite, Onsite, and Ongoing Training.</p> <ul data-bbox="495 1123 1073 1816" style="list-style-type: none"> <li data-bbox="495 1123 1073 1329">• The Preparation component aligns the training plan with customer specific needs and expectations. It includes discussion of a program overview and customized training options as well as staffing and scheduling and identification of IT needs and support.</li> <li data-bbox="495 1350 1073 1591">• The Pre-Onsite component includes online self-paced prerequisite learning taken prior to and in preparation for onsite training. This will help build foundational knowledge to enable maximum engagement and retention during onsite training. Learners can immediately apply new concepts into clinical practice.</li> <li data-bbox="495 1612 1073 1816">• The Onsite component provides agendas that include a focus on the User Interface, Workflow and Protocol buidling using a console simulator, a structured Phase one agenda featuring training on the key functions and features of the scanner and including hands on practice and additional protocol</li> </ul>

Item No.	Qty	Description
		<p>building. Several customized agenda options are available post turnover based on clinical specializations and advanced scanning designed to cater to staff competencies and desired outcomes. This component is delivered onsite by an experienced Clinical Applications Specialist.</p> <ul style="list-style-type: none"> <li>• The Ongoing component provides the opportunity for continued learning, anywhere and anytime, through virtual training sessions with GE experts, continued access to online training modules, reference guides and tutorials and non-emergency assistance via the Answerline. These resources will help to maintain clinical performance, continue to improve upon knowledge and competencies and ongoing development of skills.</li> </ul> <p>Instruction is provided from 8 AM to 5 PM, Monday through Friday and includes T&amp;L expenses. Program concludes two years after the initial start date.</p>
26	1	<p><b>Standard Service License</b></p> <p>GE Healthcare has reclassified its service tools, diagnostics and documentation into various classes (please refer to the Service Licensing Notification statement at the beginning of this Quotation). The Standard License provides access to service tools used to perform basic level service on the Equipment and is included at no charge for the warranty period.</p>
	<b>1</b>	<b>NonProducts</b>
27	1	<p>Rigging to remove Toshia Acq 64 CT</p> <p><b>AW Server 3x2</b></p>
28	1	<p>AW Server 3.2 Ext 2 L</p> <p>AW Server 3.2 Ext 2 L</p> <p>The AW Server delivers distributed 3D visualization capabilities throughout the enterprise and at any</p>

Item Qty No.	Description
	<p>remote reading location. 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 visualization to be leveraged easily to diagnose diseases quickly and make sound decisions. The AW Server also 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"> <li>• 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.</li> <li>• Support for 10 concurrent users of 2D tools of which 3 may run 3D advanced applications</li> <li>• Up to 40,000 concurrent (equivalent to 512x512 CT) slices shared between users</li> <li>• 3 concurrent Volume Viewer licenses</li> <li>• Support for additional VolumeShare 7 advanced applications which require separate purchased license(s)</li> <li>• Support for a single user for GSI Viewer</li> </ul>

Item Qty No.	Description
	<p data-bbox="558 407 951 434">(requires optional license purchase)</p> <p data-bbox="495 459 643 487">Key features:</p> <ul data-bbox="516 514 1081 1717" style="list-style-type: none"> <li>• Access to 3D visualization capabilities including MIP/MPR/VR, segmentation, fly through and PET/CT</li> <li>• "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.</li> <li>• Intuitive work list interface with custom work lists, easy access to priors and exam states.</li> <li>• Programmable ability to automatically push saved results to a DICOM host such as PACS when closing a session.</li> <li>• Optional pre-processing capability to automatically process exams in background based on preset rules, minimizing wait time and keeping exams ready to read.</li> <li>• Ability to open up to 3 simultaneous application sessions per active user and instantly switch between these sessions.</li> <li>• 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.</li> <li>• Ability to float application licenses between AW workstations (requires VolumeShare 2 or later) and one or more AW Server(s)</li> <li>• Enterprise directory integration for single sign on user authentication with audit trails.</li> <li>• Open API for PACS integration</li> </ul> <p data-bbox="495 1738 857 1766">Performance and intended uses:</p> <p data-bbox="495 1795 1073 1822">Performance and interactivity on client PC's depend</p>

Item Qty No.	Description
	<p>on the network bandwidth, latency and client PC configuration. To attain 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 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.</p> <p>Specifications:</p> <p>Server Hardware:</p> <ul style="list-style-type: none"> <li>• 2 Intel Xeon E5-2640 ten core CPUs.</li> <li>• 64GB RAM</li> <li>• Rack-mount (1U) server</li> <li>• 300GB SAS SFF DS HDD RAID 1 for OS, additional local storage for image cache.</li> <li>• 1 Gbps NIC for DICOM and client traffic.</li> <li>• Dedicated Integrated Lights Out Manager (iLO).</li> <li>• Fully redundant power and cooling.</li> <li>• 600GB SAS SFF HDD RAID 6 disk for 2.4TB of image storage</li> <li>• Raid 6 to maximize data integrity, redundancy and performance.</li> <li>• Operating System: GE HELiOS 6.8</li> </ul> <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>

Item Qty No.	Description
	<p>Hardware:</p> <ul style="list-style-type: none"> <li>• Processor: 2.2 GHz Pentium 4 minimum (or equivalent); Dual core processors recommended.</li> <li>• Memory: 1024 MB minimum.</li> <li>• Disk drive: 250MB free space available.</li> <li>• 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</li> <li>• Network card 100 Mbps minimum (1000 Mbps recommended).</li> <li>• Internet connection. Customer provided IPSEC VPN, for internet/WAN operation.</li> <li>• Mouse: Two or three-button mouse. Three button mouse suggested for best use of functions.</li> </ul> <p>Software:</p> <ul style="list-style-type: none"> <li>• Windows 7 SP1 32 and 64 bit</li> <li>• Windows 8.1 32 and 64 bit</li> <li>• Windows 10 32 and 64 bit</li> <li>• Mac Parallels (Mac OS X 10.10, Parallels 10, Windows 7 SP1 32/64 bit, Windows 8.1 32/64 bit, Windows 10 32 and 64 bit)</li> </ul> <p>Installation Includes:</p> <ul style="list-style-type: none"> <li>• Site readiness survey</li> <li>• Installation of Enterprise OS.</li> <li>• Installation of GE Healthcare applications software.</li> <li>• Configuration of active directory (if required).</li> <li>• Configuration of up to 5 DICOM hosts provided prior to installation.</li> <li>• Installation of one client for purposes of server</li> </ul>



Item No.	Qty	Description
		<p>testing and applications training.</p> <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>
29	1	<p>Standalone Installation Set</p> <p>Standalone Installation Set</p>
30	1	<p>Cardiovascular Package</p> <p>Cardiovascular Package</p> <p>Includes:</p> <ul style="list-style-type: none"> <li>o TAVI Analysis</li> <li>o VessellQ Xpress</li> <li>o AutoBone Xpress</li> <li>o CardiQ Xpress 2.0 Reveal</li> </ul> <p>TAVI Analysis is a post processing software application to aide in the evaluation of CT Datasets acquired for TAVI (TAVR) procedures. CT provides information that is important for successful planning of TAVI/TAVR procedures. CT is used to help determine aortic annulus size, to guide selection of appropriate replacement valve, provide dimensions of the entire aorta to help determine the access path for the catheter and give guidance for C-arm angulation for deployment of the device.</p> <p>GE's TAVI Analysis software provides a streamlined, guided workflow to enable efficient consistent work-ups of your TAVI studies with connectivity directly to the interventional suit</p>

Item No.	Qty	Description
		<p>Key features of the TAVI Analysis package:</p> <ul style="list-style-type: none"> <li>o Automatic segmentation of the aorta with calcific areas highlighted</li> <li>o Guided workflow for acquiring all measurements needed for aortic annulus sizing</li> <li>o Ability to work with multi-phase data</li> <li>o One Click perpendicular views to demonstrate working angles for valve deployment in the cath lab.</li> <li>o Guided vessel tracking tools to allow for easy planning for any access route (e.g. femoral, subclavian, transapical)</li> <li>o Summary Table for easy exporting of measurements</li> <li>o Direct communication with Heart Vision 2 software for easy transition of processed CT data to the cath lab</li> <li>o 3D and calcium overlay VR models to aide in visualization during interventional procedure.</li> </ul> <p>Requirements:</p> <ul style="list-style-type: none"> <li>o VessellQ Xpress and Autobone Xpress are pre-requisites for the TAVI Analysis package.</li> </ul>
31	1	<p>CT Perfusion 4D Complete</p> <p>CT Perfusion 4D Complete Includes processing protocols for:</p> <ul style="list-style-type: none"> <li>• Neuro Perfusion Stroke</li> <li>• Neuro Perfusion Tumor</li> <li>• Body Perfusion Tumors (liver, kidneys, pancreas, etc.)</li> </ul>

Item Qty No.	Description
	<ul style="list-style-type: none"> <li>• Myocardial Perfusion</li> <li>• Dynamic Registration for liver and myocardial dynamic acquisitions</li> </ul> <p>CT Perfusion 4D Complete is an extensive collection of dynamic perfusion processing protocols. It 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. CT Perfusion complete includes neuro (stroke and tumor), body (tumor) and myocardial perfusion protocols. The software provides a quick and reliable assessment of the type and extent of perfusion disturbances by providing qualitative and quantitative information on various perfusion related parameters. The key perfusion parameters that CT Perfusion 4D generates are:</p> <ul style="list-style-type: none"> <li>• Regional Blood Volume (BV; ml/100g)</li> <li>• Regional Blood Flow (BF; ml/min/100g)</li> <li>• Regional Mean Transit Time (rMTT;s)</li> <li>• Capillary Permeability Surface Area Product (PS)</li> <li>• Time of Arrival (IRF T0)</li> <li>• Transit Time to IRF Peak (Tmax;sec)</li> <li>• Hepatic Arterial Fraction (HAF)</li> <li>• Hepatic Arterial Blood Flow (HABF)</li> </ul> <p>Protocols provided in CT Perfusion Complete are:</p> <ul style="list-style-type: none"> <li>• Brain Tumor</li> <li>• Body Tumor</li> <li>• Liver</li> <li>• Pancreas</li> <li>• Prostate</li> <li>• Kidney</li> <li>• Soft Tissue</li> </ul>

Item No.	Qty	Description
		<ul style="list-style-type: none"><li>• Spleen</li><li>• Bone</li><li>• Myocardium</li><li>• Dynamic Registration for Liver and Myocardium</li></ul> <p>Perfusion 4D also includes Tissue Classification Index, which provides a thresholding algorithm that may aid the clinician in determining the status of the brain tissue based on blood volume and blood flow maps, where the first six hours after onset of symptoms are critical in identifying the occurrence of stroke and follow-up treatment.</p> <p>Productivity has been enhanced with faster processing times and through the standard 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. Perfusion 4D Complete is compatible with AW VolumeShare7 and later.</p>
32	1	<p>FastStroke</p> <p>Faststroke</p> <p>FastStroke is a CT image analysis software package that assists in the analysis and visualization of CT data of the head and neck region in stroke work-ups. FastStroke enables an organized approach to the culmination and display of non-contrast head CT, head and neck CTA, multi-phadse CTA of the head and Neuro Perfusion datasets (CT Perfusion 4D license required to enable this functionality within FastStroke) to assist clinicians with a standardized approach to image analysis for the stroke evaluation.</p>

Item Qty No.	Description
	<p>The software will assist the user by providing optimized display settings to enable fast review of the images in synchronized formats, aligning the display of the images to the order of the scans and linking together multiple groups of scans. In addition, the software fuses the vascular information from different time points into a single colorized view. This multiphase information can aid the physician in visualizing the presence or absence of collateral vessels in the brain. Collateral vessel information may aid the physician in the evaluation of stroke patients.</p> <p>Key Features of FastStroke</p> <ul style="list-style-type: none"> <li>o Intelligent loading identifies the series type and applies the appropriate layout</li> <li>o Easy and intuitive workflow to quickly move through all the acquired series.</li> <li>o Smart layouts automatically adjust to display any number of phases acquired within the multiphase CTA (with a maximum of six phases in a single layout).</li> <li>o Images are automatically displayed in a thick slab MIP at optimized WW/WL settings.</li> <li>o ColorViz display: a fused display of the multiphase CTA showing the delay of the vessel opacification</li> <li>o Fully integrated with CT Perfusion</li> </ul>

Item No.	Qty	Description
33	1	<p data-bbox="514 407 888 476">4D Brain Stroke processing (requires CT Perfusion 4D License)</p> <p data-bbox="495 501 745 525">System Requirements:</p> <ul data-bbox="495 552 1000 621" style="list-style-type: none"> <li>o AW VolumeShare 7 and AW Server 3.2 Ext.1 or later.</li> </ul> <p data-bbox="495 659 613 682">GSI Viewer</p> <p data-bbox="495 709 967 867">The GSI Viewer is the application tool for viewing and manipulating spectral images acquired on GE scanners with the Gemstone Spectral Imaging option.</p> <p data-bbox="495 892 729 915">Key features include:</p> <ul data-bbox="495 940 1052 1795" style="list-style-type: none"> <li>o Protocol Driven Design - This feature provides a standard set of protocols with the additional ability for users to create and save their own protocols.</li> <li>o 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.</li> <li>o 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.</li> <li>o Material Density Analysis - Users can visually see how the GSI data is segregated amongst a material density pair, e.g. water and iodine.</li> <li>o Plot Analysis - This feature displays ROI's</li> </ul>

Item Qty No.	Description
	<p>as graphical plots in the form of a histogram, a scatter plot, spectral HU curve and an optimal CNR (contrast to noise) plot.</p> <p>Benefits are:</p> <ul style="list-style-type: none"> <li>o Material Decomposed images allow for the separation of materials like calcium, iodine, and water.</li> <li>o Visualize a virtual non-contrast like image using water-iodine basis pair image.</li> <li>o Adjusting monochromatic energy levels can optimize image contrast and reduce beam-hardening artifacts.</li> <li>o Discriminate different tissue types based on material density and monochromatic image data.</li> </ul> <p>System Requirements:</p> <ul style="list-style-type: none"> <li>o AW VolumeShare 7 or AW Server 3.2</li> <li>o Two monitor/flat panel configuration recommended</li> </ul> <p>Note: All software are Non-Transferable to other hardware and are Non-Returnable.</p>
34 1	<p>SmartScore 4.0 Software</p> <p>SmartScore 4.0</p> <p>SmartScore 4.0 is a CT post processing software tool for the quantification of coronary artery calcium scoring (CACS).</p> <p>Features include:</p> <p>Mass score and volume score, automatic highlighting of the calcium, flexible and customizable patient report. Smartscore works with gates cardiac datasets.</p> <p>SmartScore 4.0 is compatible with AW VolumeShare</p>

Item No.	Qty	Description
		7 and later
35	1	<p>Professional Services of Project Management.</p> <p>This catalog includes Professional Services of Project Management.</p> <p>Dedicated Project Manager will work with customer IT department hand-in-hand and serve as a single point of contact from project initiation to customer training and turnover.</p>
36	1	<p>AW Server Advanced Installation Services</p> <p>Advance Installation Services - provides 8 hours of labor only service to support the installation of the AW Server</p>
37	1	<p>2 DAY AW SERVER</p> <p>2 Day AW Server Training</p> <p>Two Day TiP AW Server Training</p> <p>One 2-day onsite applications training visit for AW Server. Includes T&amp;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>

**Trade-in Toshiba Acquillion 64**



## Options

Item No.	Qty	Description
38	1	<p>READY VIEW</p> <p>READY View</p> <p>READY View is an application designed to improve multi-parametric exams by enabling the analysis of MR generated data sets containing multiple images for each scan location. The MR data sets may be any of the following:</p> <ul style="list-style-type: none"><li>o Time series.</li><li>o Diffusion weighted scan.</li><li>o Diffusion tensor scan.</li><li>o Variable echo imaging.</li><li>o Blood oxygen level dependent imaging.</li><li>o Spectroscopy-Single Voxel and 2D or 3D CSI.</li></ul> <p>The READY View application provides a combination of protocols, applications and tools that enables a fast, easy and quantified analysis of the multiple data sets. The combination of acquired images, reconstructed images, calculated parametric images, tissue segmentation, annotations and measurement performed by the clinician enables a multi parametric analysis and may provide clinically relevant information for diagnosis.</p> <p>READY View is available on the Advantage Workstation (AW) and the AW Server Enterprise Gen2. Through the AW server capabilities, READY View will be available throughout the enterprise and at any remote reading location for viewing and processing images. READY View offers the</p>

Item Qty No.	Description
	<p>following:</p> <p>Personalized workflow:</p> <ul style="list-style-type: none"> <li>o Provides guided workflows to help process MR data.</li> <li>o Provides custom workflows and applications with adjustable layouts, personalized parameter settings and custom review steps.</li> <li>o Optimizes workflows by enabling access to READY View from the location of your choice (ie PC, laptop or PACS/RIS workstation).</li> </ul> <p>High-Tech framework:</p> <ul style="list-style-type: none"> <li>o Provides additional clinical information for diagnosis by creating graphs (time curves) and color parametric images.</li> <li>o Offers a set of protocols for processing multi-parametric data.</li> <li>o Enables the fusion of color parametric images with anatomical 2D or 3D images by a simple "drag and drop."</li> <li>o Enables MR to MR image registration to reduce the effect of a patients' movement between series.</li> <li>o Provides tools and workflows for processing 2D and 3D CSI data.</li> </ul> <p>Improved productivity:</p> <ul style="list-style-type: none"> <li>o Provides a simple workflow to review and manipulate acquired images (Maximum Intensity Projection (MIP), Multi Planar Reconstruction (MPR), 3D rendering) and to process and fuse functional data.</li> <li>o Automatically selects the most relevant protocols.</li> </ul>

Item Qty No.	Description
	<ul style="list-style-type: none"> <li>o Enables Save State to restore the state of previously processed data.</li> <li>o Provides easy to use slide bars that enable real time parametric image calculation and/or segmentation.</li> </ul>
39 1	<p data-bbox="495 642 789 665">REVOLUTION CT SVC TRNG</p> <p data-bbox="495 695 1078 1409">The Revolution CT course takes a blended approach to presenting the material to the learner. This course provides the learner with a prework assignment using computer based training (CBT) followed by an instructor led training (ILT) session. The CBT section of the training consists of equipment safety procedures and sub-system component description, location, and identification. Upon completion of the CBT, the learner shall attend 40 hour in-residence instructor led training event with an exam. The ILT portion of the training will consist of combination of classroom lecture and discussion as well as lab demonstration and performance based activities. The lab activities have been developed to provide the learner with system specific knowledge, reinforce current skills, and develop new skills associated with maintaining the Revolution CT system. The learner will have previously completed training on VCT, HD750, and or LightSpeed 7x and Optima 660.</p>
40 1	<p data-bbox="495 1446 753 1470">CT LS 7X &amp; OPTIMA 660</p> <p data-bbox="495 1499 1000 1522">CT LightSpeed 7x and Optima 660 (Class/Lab)</p> <p data-bbox="495 1551 1065 1829">The CT LightSpeed 7x &amp; Optima 660 course is a differences class and is intended for Engineers who have completed (R0026CT) LightSpeed Pro Training. It will equip the Engineer with system and subsystem theory and hands-on lab activities to address technical service issues for the 32/64-slice family of scanners (including LightSpeed VCT, LightSpeed VCT XT, LightSpeed VCT Select, and</p>

Item No.	Qty	Description	Ext
41	1	<p>Optima 660. This training must be used within 2 years from the purchase date.</p> <p>CT LIGHTSPEED PRO ADV SER</p> <p>The LightSpeed Pro Advanced course is intended for engineers servicing LightSpeed Pro 16, LightSpeed RT, and forward production LightSpeed 16/Ultra/Plus (starting in 2004) systems. This course must be taken within 2 years from the purchase date.</p>	
42	1	<p>CT Basic Physics/Instrumentation (web)</p> <p>CT Basic Physics/Instrumentation (Web)</p> <p>The CT Fundamentals Course is Designed for Service Engineers who have Little or No Familiarity with CT Systems. The Course Teaches General Processes, Concepts, and Equipment Used in CT Scanning. This Course is Delivered Via the internet as an online training course. This course must be taken within 2 years from the purchase date.</p>	
43	1	<p>CT LIGHTSPEED PRO ADV SVC</p> <p>CT Lightspeed Pro Advanced Service (Web)</p> <p>Web course is 8 hours long</p> <p>Sales Description:</p> <p>Introduction to CT LightSpeed Pro system theory and subsystems</p> <p>Executive Summary:</p> <p>This is a computer-based training course intended to prepare Service Engineers on basic system theory for the LightSpeed Pro product line.</p> <p>Course Competencies:</p> <p>The curriculum builds on concepts taught in CT Basic Physics and is a prerequisite for the CT LightSpeed Pro and Discovery ST in-resident training</p>	

Item No.	Qty	Description	Ext
		<p>classes at the GE Healthcare Institute.</p> <p>Special Considerations:</p> <p>A functioning laptop computer with a CD-ROM reader, network card and a modem card is required for use during this course. The browser on the computer must be IE4 or Netscape 4.5 or higher. Minimum system requirements include 133 MHz Windows 95, NY 4.0 or higher 32 MB of RAM 16-bit color display adapter. Proof of completion of this eLearning course is necessary prior to attending any subsequent GE Healthcare In-Resident training. This course contains proprietary content. For customers attending this course, special paperwork is required to take this course. Please see the registration page for details on the enrollment process. This course must be taken within 2 years from the purchase date.</p>	
44	1	<p>GLOBAL OPERATOR CONSOLE</p> <p>CT GLOBAL OPERATORS CONSOLE 3,4,&amp; 5</p> <p>The Global Operators Console can be referred to as the Xtreme console as well. This is the current operator console for the CT LightSpeed and PET Discovery ST systems. This course must be taken within 2 years from the purchase date.</p>	
45	1	<p>CT GLOBAL OPR CONSOLE 6</p> <p>CT LightSpeed Global Operators Console 6</p> <p>This course will prepare the GE Field Engineer and In House engineers for servicing the new Global Operators Console 6 (GOC6). This course must be taken within 2 years from the purchase date.</p>	
46	1	<p>OPTIMA CT660 SERVICE (WEB)</p> <p>Optima CT660 Service (web)</p> <p>This upgrade course taken online is intended for Support Engineers who have previous LightSpeed</p>	

Item No.	Qty	Description	Ext
		VCT training. Topics covered include: New gantry display, new power saving mode, new gantry axial motor and control, new gantry covers removal and installation, safety awareness with gantry cover mounting hardware, new operators console (RIO), load from cold-Saturn detector. This course must be taken within 2 years from the purchase date or it expires without refund.	
47	1	<p>Troubleshooting Basics Service (web)</p> <p>Troubleshooting Basics Service (Web)</p> <p>This Course is Intended for Individuals Involved in Servicing Medical Equipment. By Taking This Course, You will Learn a Proven Process for Troubleshooting Problems with Medical Equipment. You will Also Learn How to Use Various Tools in a Troubleshooting Situation and How to Interpret Error Messages. This Course Does Not Address How to Troubleshoot Specific Products. It is Recommended That you Have Fundamental Training in a Modality Prior to Taking This Course. This course must be taken within 2 years from the purchase date.</p>	
48	1	<p>NETWORKING &amp; DICOM BASIC</p> <p>Networking and Dicom Basic for DI Service (Web)</p> <p>Training will prepare engineers on configuring and troubleshooting networks, which use the DICOM protocol for transferring patient data and how to read and use DICOM Conformance Statements.</p> <p>This course covers the following:</p> <ul style="list-style-type: none"> <li>• Introduction to 7 layer OSI and 5 layer TCP/IP protocols (Basic model only)</li> <li>• Identify hardware used in networking</li> <li>• Review of the most used networking devices, cables, NIC, switch and routers</li> <li>• Simple network connection with 2 to 5 devices</li> </ul>	

Item No.	Qty Description
	<ul style="list-style-type: none"><li>• Dicom definitions, theory and configuration</li></ul> <p>This course must be taken within 2 years from the purchase date.</p>