

Item No. Qty.		Description
1	1	<p>Discovery XR656 Base System with TWO FlashPad Detectors</p> <p>The Discovery XR656 is an advanced digital radiographic imaging system that provides excellent image quality, a variety of image manipulation and post-processing tools as well as the option to utilize GE Healthcare's exclusive advanced clinical applications. Powered by FlashPad, GE's wireless digital detector, workflow is streamlined with TWO portable detectors that can be used in the table, wall-stand or freely to best accomodate most 2D exam requirements as well as advanced radiographic requirements.</p> <p>At its core, the Discovery XR656 delivers improved productivity through an efficient and intuitive workflow. The base system comes equipped with a systems cabinet, acquisition review workstation, image processing tools, short-term storage and quick in-room viewing of images. Also included is a host of networking and connectivity options, dose reporting and system maintenance. These features are designed to make this system easy to use and reliable while providing high quality radiographic images in a digital environment.</p> <p>The Discovery XR656's core feature set can help streamline even the toughest exam. Consistent image quality helps reduce retakes, and unique image processing helps save time. With DICOM connectivity, the Discovery XR656</p>

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	<p>connects easily to HIS, RIS or PACS for efficient data transfer.</p> <p>The Discovery XR656 base system includes:</p> <p>Two wireless Digital Detectors with batteries and optional tether.</p> <ul style="list-style-type: none"> • Single panel (non-tiled) amorphous silicon detector with a Cesium Iodide scintillator and two handgrips that facilitate easy positioning and a secure grip. • Wireless connectivity through Ultrawide Band Technology for fast, efficient and secure communications between the detector and the base system. • Image area 40.4 cm x 40.4 cm (15.9 in. x 15.9 in.) • Active matrix 2022 x 2022 pixels. • Pixel pitch 200 microns. • Typical upper dynamic range 7.8 mR @ RQA5. • TypicalDQE 68 @ Olp @ RQA5. • Weighs 4.32 kg (9.52 lb.) without battery, 0.18 kg (0.40 lb.) battery weight. • Dimensions: L 580 mm, H 452 mm, T 24 mm. • Can support up to 160 kg (352 lb.) of distributed load. • Battery or tethered operated. Includes two rechargeable and exchangeable batteries and 7 m cable (4 m or 10 m optional) for optimal connectivity and power. • One 6:1 clip-on grid for FlashPad detectors.

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	<ul style="list-style-type: none"> Battery allows for 150 images to be taken in 3 hours. QAP (Quality Assurance Procedure) FlashPad detector can support Advanced Applications that are options available on the Discovery XR656
	<p>Acquisition Workstation</p> <p>The Acquisition Workstation is the primary interface to the network and provides image post-processing capabilities. The System Controller Module provides single point control, directing and coordinating overall system operation, while monitoring all system modules automatically through software.</p> <p>The Acquisition Workstation includes:</p> <ul style="list-style-type: none"> Two 19-inch Flat Panel Monitors that help minimize desktop space required. Keyboard and Mouse CPU Tower with 6GB RAM, 320 GB of hard drive storage and capacity for over 22,000 images. 120/140 VAC, 50/60 Hz. Easy Image Manipulation and Image Display Tools which include: <ul style="list-style-type: none"> Window width and level Gray scale/contrast invert Interpolated zoom and roam Image flips (horizontal, vertical) with automatic indicator Image Rotate - 90 degree 4/20

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	<p>increments</p> <ul style="list-style-type: none"> - Free rotation - 360 degrees - Image orientation management - Electronic Left/Right Markers - Free text annotation - Manual shuttering - Image Annotations and Measurement Tools - Multi-Resolution Post Processing - Customizable Image Processing to Match - User Preferences - CD-RW and DVD Drive for Image Archive - Image Viewer on Archive CD's and DVD's
	<p>Acquisition Control System</p> <ul style="list-style-type: none"> • Single Point System Control and Monitoring. • Auto-Protocol Programming:comes with default set of exam and view protocols and the ability to build an infinite number of exams or views through the editor function. User also has the ability to attach acquisition protocols. • System manager allows equipment error logging and provides resident power-up diagnostics. • kVp selections range from 40-150 in 1 kVp increments • Focal Spot Sizes of 0.6 and 1.2 mm - mA

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	<p>Patient Management</p> <ul style="list-style-type: none"> • DICOM Modality Worklist for HIS/RIS - SCU (with programmable auto refresh) • Patient edit/automatic foldering (Copy exam) • Patient Dose Reporting Calculated Dose Monitoring (mGy) • "Patient Directory" provides fast access to the image and exam database for case reviews and file management. • Detector Exposure Indicator: tool for detector dose feedback to ensure exposure was within normal limits. • Emergency Patient Exam Capability Emergency patient feature - allows user to open exam and acquire images without a worklist entry. • The Copy Patient function allows merging of the patient information with the exam images. • Fast Image Display - Average time for a partially processed image is approximately three seconds and less than eight seconds for a fully processed image. Times may vary based on how the detector is connected to the system (i.e. docked, tethered or wireless) • Set of default adult and pediatric protocols allows quick selection of the appropriate techniques for common procedures/exams with the ability to define unlimited number of custom protocols.

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	<ul style="list-style-type: none"> Set of 4 Factory (GE pre-set) image processing selections (looks) optimized for each anatomical view with the ability to define multiple Custom looks for each anatomical view/ patient size combination. Automatic image storage and print with DICOM 3.0 and IHE Compliant networking, further increasing exam throughput and decreasing examination time for patients. <p>Image Quality and Dose</p> <ul style="list-style-type: none"> Multi-resolution image processing capability. Tissue Equalization used to correct over-penetrated and under-penetrated areas within the image. Auto and manual image shuttering cropping tool. Automated brightness/contrast setting (Smart Windowing) Orthopedic Magnification/Print. Detector Exposure Index (DEI) - dose tracking and QC metric. Dose Area Product (DAP) - entrance dose metric. Grid Line Reduction (selectable) Intelligent Collimator Edge Detection automated, image based cropping/shuttering tool that relies solely on image information to locate the collimator edges present in the image. Orthopedic Magnification/Print 7/20

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	<p data-bbox="480 201 837 264">DICOM and Standard Networking Capabilities</p> <p data-bbox="480 289 922 422">Images may be transmitted manually or automatically through the DICOM interface to printers, archival devices, servers or review workstations.</p> <p data-bbox="480 453 927 558">Please refer to the DICOM Conformance Statement for complete definition of supported DICOM connectivity services.</p> <p data-bbox="480 579 837 642">DICOM and Standard Networking Capabilities include:</p> <ul data-bbox="500 663 938 1654" style="list-style-type: none"> <li data-bbox="500 663 938 726">• Ethernet Network Link - DICOM 3.0. <li data-bbox="500 747 938 810">• DICOM Storage (with auto-send to different locations) <li data-bbox="500 831 938 936">• DICOM Storage Commitment (with programmable auto delete function) <li data-bbox="500 957 938 1020">• DICOM Modality Worklist for HIS/RIS (with auto refresh) <li data-bbox="500 1041 870 1062">• DX/CR Worklist Filtering. <li data-bbox="500 1083 938 1146">• DICOM Media Interchange on DVD-R. <li data-bbox="500 1167 938 1272">• DICOM Modality Perform Procedure Step (MPPS) feedback to the HIS/RIS (SPS PPS) <li data-bbox="500 1293 938 1356">• DICOM Grayscale Print (with print layout at the console) <li data-bbox="500 1377 938 1440">• DICOM Query/Retrieve (retrieves images back from PACS) <li data-bbox="500 1461 938 1566">• System Access & Authorization Control to support HIPAA Compliance. <li data-bbox="500 1587 938 1608">• Full Range of Printing Options. <li data-bbox="500 1629 938 1692">• Numerous Layout and Format Options.

Item No. Qty

Description

Systems Cabinet

- Built-in System Distribution Power Module and Circuit Breaker for Single Point Power Feed to Room Subsystems
- Modular Designed X-ray Systems Based on a Digital Communications Network for Improved Reliability and Image Quality.

Quality Control/System Reliability Features

Preventing customer experienced system failures and reducing unplanned system downtime are critical.

The following features help to achieve these goals:

- Using the integrated system Quality Assurance Procedure (QAP), image quality checks can be easily performed by the customer.
- The QAP includes a phantom, optimized for Digital Image Quality testing and is included with the system.
- System changes are highlighted and can be corrected before they become a problem.

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Discovery XR656 Overhead Tube Suspension

The Overhead Tube Suspension (OTS) system with motorized movement delivers excellent levels of operational support for efficient operation and precise positioning.

Item No. Qty	Description
	<p data-bbox="480 191 902 218">The Overhead Ceiling Tube Suspension</p> <p data-bbox="480 226 680 254">Package includes:</p> <ul style="list-style-type: none"> <li data-bbox="500 273 938 338">• Auto-Positioning Package (included in base) <ul style="list-style-type: none"> <li data-bbox="566 359 948 737">– Auto-Positioning enables the users to select a predefined system position from the system console and automatically move the equipment by simply holding the "Auto Positioning" buttons. This feature reduces user fatigue and increases the productivity of the operator. <li data-bbox="566 756 938 963">– Auto-Positioning is controlled at the acquisition workstation or with the IR remote control, allowing the user to remain in the room while moving the system. <li data-bbox="566 982 938 1150">– Pre-set positions at the table, wallstand and park position at various SIDs and vertical and horizontal orientations. <li data-bbox="566 1169 938 1444">– Auto-Positioning will incorporate angulation of the tube, longitudinal, lateral, rotational and vertical positioning of OTS, table detector longitudinal positioning, wallstand detector vertical positioning. <li data-bbox="566 1463 948 1631">– Auto-Positioning comes with 7 default positions and up to 10 additional user defined positions can be added to the system.

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	<ul style="list-style-type: none"> • Tube and Detector Tracking Synchronized tube and detector tracking enables convenient workflow by keeping the tube correctly aligned with the wall-stand or table detector. • Motorized 5-axis movements Supported Positions: park, table 100 cm SID (head, center, foot), wallstand 100 cm and 180 cm CID, and horizontal wallstand 100 cm SID. • IR Remote - The infrared remote is an in-room control allowing the technologist greater flexibility & ability to pre-position the system automatically in preparation for the next clinical exam/view. • Auto or manual positioning with single lock release and auto detents for assisted manual positioning. • Touch-screen user interface with LCD screen display helps confirm patient data, review techniques, receptor selection and modify/confirm wireless detector association. The easy to Read, Auto Rotating user screen also includes a message readout line and easy to see light indicators. • Patient Side Touch Screen User provides the following functions to the user: <ul style="list-style-type: none"> – Lock, Detent Control – Field of View Image Size Selection – Collimator Field Light Selection

Item No.	Qty	Description	Technique Adjust (kVp, mAs)
		<ul style="list-style-type: none"> – Receptor Selection (table, wallstand, wireless or cassette) – Exam Inhibit Display – Collimator Manual Override – Position Display (Source-to-Image Distance, X-ray Tube Angle, Column Rotation Angle) – Display of Patient Name for In-Room Verification (this feature can be disabled) 	
3	1	2, 3 or 4 Meter Longitudinal Drive Belt Kit	
4	1	2, 3 or 4 Meter Longitudinal Rail Select (Dependent on Room Size)	
5	1	2, 3 or 4 Meter Bridge Select (Dependent on Room Size)	
6	1	2, 3 or 4 Meter Bridge Cable Select	
7	1	2, 3 or 4 Meter Bridge Cable Drape Select	
8	1	Required System Language Labels - English	
9	1	<p>80kW High Frequency Generator, 50 or 60Hz The high frequency 80kW power unit is designed for radiographic applications and utilizes microprocessor controlled power and parameter adjustment</p> <p>Specifications:</p> <ul style="list-style-type: none"> • 1000mA at 80kVp • 800mA at 100kVp 	

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		Input Power: 360-480VAC, 3 Phase, 60Hz kVp Range: 40-150kVp,)kVp increments kVp Accuracy: 3% +/-2kVp mA Range: <ul style="list-style-type: none"> • Small Focal Spot: 10-320mA • Large Focal Spot: 160-1000mA
10	1	Discovery XR656 Table (No Detector Included) <ul style="list-style-type: none"> • Table Base - Motor Driven Elevating Table Ta • Table Footprint - 1260 mm x 690 mm (50 in. x 27 in.) Ta • Elevating Range 57 cm-82 cm (20 in.-32 in.) El • Elevation from Min to Max Height <10 seconds El • Maximum Patient Weight 220kg (485 pounds) M • Foot Pedals on Front and Rear of Table Fo • Safety Lockout Switches Two Table Top <ul style="list-style-type: none"> • Eight Way Tabletop Motion Eight • Inherent Filtration <1.0 mm Al Equivalent at 100kVp In • Table Top Dimensions 88 cm Width x 229 cm Length (34.6 in. x 90.16 in.) Ta

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		<p>(24 in.)</p> <ul style="list-style-type: none"> Longitudinal Patient Coverage 1830 mm (72 in.) Removable 100 cm Focus High Line Rate Stationary Grid 70 I/cm (198 I/in.) 12:1 Ratio Automatic Exposure Control (AEC) Cross Table Detector Holder
11	1	<p>Table Top Lateral Detector Holder</p> <p>Wireless DR detector holder, designed specifically for GE, secures the detector in a vertical position on the tabletop for cross-table imaging.</p>
12	1	<p>Discovery XR656 Tilting Wallstand with Standard Length Arm</p> <p>Discovery XR656 Digital Tilting Wallstand is designed for radiography applications with the patient standing, sitting or lying on a guerney.</p> <p>The Discovery XR656 wallstand is designed for use with GE's exclusive FlashPad wireless digital detector, overhead tube suspension, ion chamber and removable non-reciprocating grid. The FlashPad wireless digital detector can be operated docked, tethered or in a wireless digital cassette mode.</p> <ul style="list-style-type: none"> The wallstand is motorized. Electromagnetic braking secures vertical motion. Motorized receptor tilting controlled with either IR remote control or hand switches located on the arm. Vertical motorization of the wallstand with foot switch or IR

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		<p>remote control.</p> <ul style="list-style-type: none"> • Auto-tracking from the overhead tube suspension. • Graphic outlines of image sizes and ion chamber scan areas on the front panel enhance accuracy and safety. Preparation is fast and simple for better patient throughput. • The wallstand tilts from -20 degrees to 90 degrees. • The wallstand grids are removable from the side. • It is configurable for either left or right side insertion. • The wallstand come with two removable hi-line rate fixed grids for optimum scatter cleanup and aluminum interspacing for image quality uniformity. <ul style="list-style-type: none"> – 100 cm (40 in.) focus grid with a SID range of 90 cm - 118 cm (70 lines/cm, 12:1 ratio) – 180 cm (72 in.) focus grid with a SID range of 145 cm - 245 cm (70 lines/cm, 13:1 ratio) – Automatic Exposure Control (AEC) utilizes three ion chamber sensors, which are mounted between the patient and digital detector. – Includes patient handgrips and a lateral support bar.
13	1	<p>Mid-Range Wallstand Grid</p> <p>- 130 cm (51 inch) focus - 10:1 ratio, 70</p>

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14	1	<p>lines/cm - Used for SID ranges from 90 to 190 cm</p> <p>Dual Energy Subtraction Chest and Abdomen</p> <p>Dual Energy Subtraction is an Advanced Clinical Application.</p> <p>Provides three diagnostic images:</p> <ul style="list-style-type: none"> • Standard Station • Soft Tissue only • Bone only
15	1	<p>Repeat and Reject Analysis for the Discovery XR656</p> <p>The Repeat and Reject Analysis (RRA) software package is a quality control (QC) application available for the Discovery XR656 that allows for repeat or reject images to be captured and categorized by technologist. It is designed to help track and analyze the X-ray repeat rate</p> <ul style="list-style-type: none"> • The easy-to-use operator interface helps technologists classify each image they reject and to select a specific reason for the repeat /image rejection. • RRA can be a helpful teaching tool because it includes links to actual JPEGs of the rejected images to help the user analyze why the image was rejected. • The RRA application tracks the rejected image data by operator, exam type, date and reason code. • Reports can be exported in DVD, 16/20

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CD or USB format for ease of use.		
16	1	<p>Auto Protocol Assist for the Discovery XR656</p> <p>Auto-Protocol Assist - the Discovery XR656 system will automatically transition directly to the Acquire screen when the protocol code downloaded from the HIS/RIS (automatically performed with worklist refresh) matches the exam code contained in the protocol database. This tool eliminates the user steps required to select patient exam types and initiate an exam.</p>
17	1	<p>6 Day XR System Training</p> <p>One 4 day and one 2 day TIP Onsite Training visits for the X-ray system.</p> <p>Includes TELL expenses. Days provided consecutively.</p> <p>This training program must be scheduled and completed within 12 months after the date of product delivery.</p>
18	1	<p>Revolution Digital Rad Systems (Class/Lab)</p> <p>The Revolution Digital Rad Systems service training consists of an online course & 1 week of in-residence class and labs. The systems taught in the course include: Revolution XQI, Revolution XRd (Gipeto), Revolution XRd-2x (Lightning), Definium 8000 (Thunder), Optima XR640, and Discovery XR650. This course must be taken within 2 years from the purchase date.</p>

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19	5	<p data-bbox="480 165 894 405">Meals and Lodging Expense has been developed to allow the customer the convenience of prepaying for their meals and lodging expenses when attending Technical Service Training at the GE Healthcare Institute located in Waukesha, WI.</p> <p data-bbox="480 428 915 709">The price of this convenience is based on a per day basis. Thus a quantity of 1 is equal to 1 day's meals and lodging expense. When purchasing the meals and lodging expense please be mindful of weekend days during the training stay and include 2 days to cover a weekend in the purchase quantity.</p> <p data-bbox="480 732 922 1161">Examples: A 5-day course needs a quantity of 5. Any course longer than 5 days should include 2 days to account for the weekend stay. Any course longer than 10 days will require an additional 4 days of the meals and lodging expense to cover the 2 weekends of the stay. Thus a 15-day course would have a quantity of 19 days to cover the 2 weekends of the stay. This expense must be used within 2 years from the purchase date.</p> <p data-bbox="480 1184 911 1465">Three meals a day Monday thru Thursday, 2 meals on Friday, plus breaks are provided in the onsite cafeteria. The GE Healthcare Institute cafeteria closes Friday after lunch and reopens Monday morning for breakfast. Weekend meals are the responsibility of the customer.</p> <p data-bbox="480 1488 911 1549">Only for In-resident courses to be taken at the GE Healthcare Institute.</p>
20	1	<p data-bbox="480 1583 821 1610">The AIRFARE EXPENSE has been</p>

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		<p>developed to allow the customer the convenience to prepay their roundtrip Airfare expenses when attending Technical Service Training at the GE Healthcare Institute located in Waukesha, WI. To be used for engineers attending In-Resident Class/Lab courses for Diagnostic Imaging.</p> <p>Customer will make their Airfare arrangements thru the GE Travel Center. Specific directions will be provided to the customer upon confirmation of class. Please note that this expense must be used within 2 years of the purchase date</p>
21	1	<p>Service CD</p> <p>The Revolution Digital Rad Systems service-training course is a blended course, consisting of a self-paced CD and one week of in-resident labs. The following systems are included in the course: Revolution XQ/i, XR/d, XR/d-2X, and the Thunder system. This course must be taken within 2 years from the purchase date.</p>
22	1	<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"> • Introduction to 7 layer OSI and 5

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		layer TCP/IP protocols (Basic model only) <ul style="list-style-type: none"> • Identify hardware used in networking • Review of the most used networking devices, cables, NIC, switch and routers • Simple network connection with 2 to 5 devices • Dicom definitions, theory and configuration This course must be taken within 2 years from the purchase date.
23	1	Connection cables for the wallstand
24	1	Connection cables for the table