

Item No. Qty

Description

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Discovery XR656 Base System with
TWO FlashPad Detectors

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.

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.

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

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	<p data-bbox="480 149 893 205">connects easily to HIS, RIS or PACS for efficient data transfer.</p> <p data-bbox="480 233 850 289">The Discovery XR656 base system includes:</p> <p data-bbox="480 310 847 367">Two wireless Digital Detectors with batteries and optional tether.</p> <ul data-bbox="500 388 959 1535" style="list-style-type: none"> <li data-bbox="500 388 959 558">• Single panel (non-tiled) amorphous silicon detector with a Cesium Iodide scintillator and two handgrips that facilitate easy positioning and a secure grip. <li data-bbox="500 575 959 745">• Wireless connectivity through Ultrawide Band Technology for fast, efficient and secure communications between the detector and the base system. <li data-bbox="500 762 959 819">• Image area 40.4 cm x 40.4 cm (15.9 in. x 15.9 in.) <li data-bbox="500 835 959 863">• Active matrix 2022 x 2022 pixels. <li data-bbox="500 879 959 907">• Pixel pitch 200 microns. <li data-bbox="500 924 959 980">• Typical upper dynamic range 7.8 mR @ RQA5. <li data-bbox="500 997 959 1024">• TypicalDQE 68 @ Olp @ RQA5. <li data-bbox="500 1041 959 1134">• Weighs 4.32 kg (9.52 lb.) without battery, 0.18 kg (0.40 lb.) battery weight. <li data-bbox="500 1150 959 1207">• Dimensions: L 580 mm, H 452 mm, T 24 mm. <li data-bbox="500 1224 959 1281">• Can support up to 160 kg (352 lb.) of distributed load. <li data-bbox="500 1297 959 1467">• 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. <li data-bbox="500 1484 959 1535">• 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

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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.
	Image Quality and Dose
	<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>DICOM and Standard Networking Capabilities</p> <p>Images may be transmitted manually or automatically through the DICOM interface to printers, archival devices, servers or review workstations.</p> <p>Please refer to the DICOM Conformance Statement for complete definition of supported DICOM connectivity services.</p> <p>DICOM and Standard Networking Capabilities include:</p> <ul style="list-style-type: none"> • Ethernet Network Link - DICOM 3.0. • DICOM Storage (with auto-send to different locations) • DICOM Storage Commitment (with programmable auto delete function) • DICOM Modality Worklist for HIS/RIS (with auto refresh) • DX/CR Worklist Filtering. • DICOM Media Interchange on DVD-R. • DICOM Modality Perform Procedure Step (MPPS) feedback to the HIS/RIS (SPS PPS) • DICOM Grayscale Print (with print layout at the console) • DICOM Query/Retrieve (retrieves images back from PACS) • System Access & Authorization Control to support HIPAA Compliance. • Full Range of Printing Options. • Numerous Layout and Format Options.

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2	1	<p data-bbox="480 165 683 193">Systems Cabinet</p> <ul data-bbox="500 207 948 533" style="list-style-type: none"> <li data-bbox="500 207 948 342">• Built-in System Distribution Power Module and Circuit Breaker for Single Point Power Feed to Room Subsystems <li data-bbox="500 359 948 533">• Modular Designed X-ray Systems Based on a Digital Communications Network for Improved Reliability and Image Quality. <p data-bbox="480 556 846 617">Quality Control/System Reliability Features</p> <p data-bbox="480 646 919 741">Preventing customer experienced system failures and reducing unplanned system downtime are critical.</p> <p data-bbox="480 764 888 825">The following features help to achieve these goals:</p> <ul data-bbox="500 848 948 1289" style="list-style-type: none"> <li data-bbox="500 848 948 1016">• Using the integrated system Quality Assurance Procedure (QAP), image quality checks can be easily performed by the customer. <li data-bbox="500 1039 948 1173">• The QAP includes a phantom, optimized for Digital Image Quality testing and is included with the system. <li data-bbox="500 1190 948 1289">• System changes are highlighted and can be corrected before they become a problem. <p data-bbox="480 1323 846 1383">Discovery XR656 Overhead Tube Suspension</p> <p data-bbox="480 1404 891 1575">The Overhead Tube Suspension (OTS) system with motorized movement delivers excellent levels of operational support for efficient operation and precise positioning.</p>

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	<p>The Overhead Ceiling Tube Suspension</p> <p>Package includes:</p> <ul style="list-style-type: none"> • Auto-Positioning Package (included in base) <ul style="list-style-type: none"> – 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. – 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. – Pre-set positions at the table, wallstand and park position at various SIDs and vertical and horizontal orientations. – Auto-Positioning will incorporate angulation of the tube, longitudinal, lateral, rotational and vertical positioning of OTS, table detector longitudinal positioning, wallstand detector vertical positioning. – Auto-Positioning comes with 7 default positions and up to 10 additional user defined positions can be added to the system.

Item No. Qty	Description	Tube and Detector Tracking Synchronized	convenient	aligned	with	the
tube and detector tracking workflow by keeping the tube correctly wall-stand or table detector.	enables					
	<ul style="list-style-type: none"> 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 					

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		<ul style="list-style-type: none"> – Technique Adjust (kVp, mAs) – 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>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 remote control. Auto-tracking from the overhead tube suspension. Graphic outlines of image sizes and ion chamber scan areas on the front panel enhance accuracy

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		<p>and safety. Preparation is fast and simple for better patient throughput.</p> <ul style="list-style-type: none"> • 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.
12	1	<p>Mid-Range Wallstand Grid</p> <ul style="list-style-type: none"> – 130 cm (51 inch) focus - 10:1 ratio, 70 lines/cm - Used for SID ranges from 90 to 190 cm
13	1	<p>Wallstand Mid-Range Crosstable Grid</p> <ul style="list-style-type: none"> – 130 cm (51 inch) focus - 10:1 ratio, 70 lines/cm - Used for SID ranges from 90 to 190 cm

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14	1	<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>VolumeRad Vertical Sweep at Wallstand</p> <p>VolumeRad is an advanced application for radiographic X-ray imaging. It allows retrospective reconstruction of a number of planes (slices) from a series of low dose exposures acquired within a limited angular range. These slices show anatomical structures at different depths</p> <ul style="list-style-type: none"> • Vertical tube sweep at the wallstand for cross table imaging over the stretcher for prone or
16	1	<p>VolumeRad Cross Lateral Sweep at Wallstand</p> <p>VolumeRAD is an advanced application for radiographic X-ray imaging. It allows retrospective reconstruction of a number of planes (slices) from a series of low dose exposures acquired within a limited angular range. These slices show anatomical structures at different depths</p> <ul style="list-style-type: none"> • Lateral tube sweep at the wallstand for cross table imaging over the stretcher for prone or

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17	1	<p>VolumeRAD Horizontal Sweep Table</p> <p>VolumeRAD is an advanced application in radiographic X-ray imaging which allows the retrospective reconstruction of a number of planes (slices) from a series of low dose exposures acquired within a limited angular range. These slices show anatomical structures at different depths</p> <p>This application supports the following sweep:</p>	
		<ul style="list-style-type: none"> • able Horizontal sweep of the tube over the table for prone or supine imaging 	T
18	1	<p>Wallstand Auto Image Paste for Spine and Long Bone Imaging</p>	
		<ul style="list-style-type: none"> • ully automated acquisition and processing of a series of images with user defined start and stop locations on the anatomical region of interest. 	F
		<ul style="list-style-type: none"> • verage acquisition time for a 3-image exam (90 cm coverage) is less than 10 seconds. Image pasting and processing time for a 3 image exam is less than 15 seconds from last exposure. 	A
		<ul style="list-style-type: none"> • llows 2 to 5 images to be pasted together with a maximum range of 150 cm 	A
		<ul style="list-style-type: none"> • ncludes imaging of the spine for scoliosis evaluation and imaging of the legs for orthopedic evaluations. 	I
		<ul style="list-style-type: none"> • Supports anatomies/view combinations of Spine Antero-posterior, Spine Postero anterior, Spine Lateral, Leg 	

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		Antero-posterior, Leg Postero-anterior.			
		<ul style="list-style-type: none"> Includes a patient stand with screen to keep the patient comfortable during acquisition. 			
19	1	25 KAIC X-Ray Main Disconnect Panel 80 Amp, 480 V / 208 V			
		FEATURES/BENEFITS			
		<ul style="list-style-type: none"> Serves as the main power disconnect between the X-Ray system and the facility 480V or 208V power source 	S		
		<ul style="list-style-type: none"> Provides emergency shut down, undervoltage protection and overcurrent protection for the X-Ray power distribution cabinet 			
		<ul style="list-style-type: none"> Standardized design provides a platform for future upgrades of the system 	S		
		<ul style="list-style-type: none"> Offers a number of advantages by combining a variety of individual components into pre-engineered and factory tested panel 	a	single	
		<ul style="list-style-type: none"> UL and cUL listed for compliance with NEC Article 100 and Article 110-3 	U		
		<ul style="list-style-type: none"> Remote emergency pushbutton located by X-Ray control provides immediate shut down of the entire system to comply with NEC required disconnecting means 	off		
		<ul style="list-style-type: none"> Surface or semi-flush mounting 	S		
		SPECIFICATIONS			
		<ul style="list-style-type: none"> Dimensions (H x W x D): 48" x 20" x 	D		

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		<p>6.68"</p> <ul style="list-style-type: none"> Weight: 80 lbs. Mounting: via keyhole slots; Width is 16" on centers, Height is 45.5" on centers <p>COMPATIBILITY</p> <ul style="list-style-type: none"> GE Three Phase X-Ray generators <p>NOTES:</p> <ul style="list-style-type: none"> Customer is responsible for rigging and arranging for installation with a certified electrician ITEM IS NON-RETURNABLE AND NON-REFUNDABLE
20	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. 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>
21	1	Connection cables for the wallstand
22	1	Connection cables for the table