

TRADE IN

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Revolution HD System

Revolution(TM) HD provides you with virtually all you need to reach the forefront of CT. Confidence-boosting spatial and temporal resolution, signal-to-noise ratio, low-contrast detectability and artifact reduction are fundamental to CT image quality. Revolution HD helps you optimize all of these parameters. It provides best-in-class spatial resolution of 0.23 mm across the full 2-m scan length a true diagnostic breakthrough. There are many other examples of Revolution HD's superb performance, study after study, as you'll experience. A common denominator is image quality that you can depend on, to enhance diagnostic accuracy and patient management across the care continuum. It's no surprise that Revolution HD equips you up front for applications from routine body, neuro, musculoskeletal, vascular, and pediatric exams to advanced cardiac studies - all while helping you make CT a rapid, non-invasive exam. But this is just the beginning. With this system, you can also upgrade easily and affordably to cutting-edge applications in oncology, cardiology and neurology -including applications that take you beyond anatomical analysis to quantitative tissue characterization and advanced functional imaging. And there's much more including tools to help you address cardiac CT's toughest challenges, from coronary motion and calcium blooming to high heart rates and difficult plaque characterizations.

Confidence from Superb Clarity

High definition image quality requires innovation throughout the image chain. With technologies and features that have set new benchmarks for image clarity, Revolution HD

enables diagnostic confidence for your clinical applications. The GE proprietary Gemstone detector enables high definition CT. Ultimately the performance of every CT system begins with the detector, and Gemstone sets a new standard in scintillator primary speed, afterglow and performance.

Low dose made possible by Smart Technologies

Better patient care, improved efficiency, expanded applications. Smart Technologies is a suite of intelligent CT tools designed to help you achieve these goals, delivering diagnostic confidence with lower levels of radiation. Revolution HD is MITA XR-29-2013 compliant.

Focus less on the system and more on your patients

The Revolution HD is an all new gantry design that comes standard with new Smart Technologies. New features such as the xstream display and organ dose modulation provides a number of workflow enhancements for you and helps you to focus less on the system and more on your patients.

Revolution HD Technology

Gemstone(TM) Detector: This key technological advancement enables improvements in spatial resolution, low contrast detectability, and the foundation for spectral imaging.

- o 98% efficient at 120kV
- o Fastest primary speed in the industry by 100x
- o 4x faster afterglow performance
- o 0.23mm spatial resolution across the 2 meter scan length
- o Backlit diode technology provides 100% active area

Smart Technologies:

- o Smart Dose - ASiR(TM): Standard on Revolution HD, is the industry's most-used

iterative reconstruction technology with over 47 million patients benefiting from its use to date. - Scout based technologies: Allows for the Revolution HD scanner to tailor the x-ray beam to the patient being scanned by utilizing the patient attenuation scout data. o kV Assist: Recommends tube voltage and current to achieve the low dose while meeting desired image quality. o Organ Dose Modulation: Provides

reduction of radiation dose via X-ray tube current modulation for superficial organs and tissues, such as breasts while maintaining diagnostic quality. - AutomA / SmartmA(TM): 3D modulation of the tube current to deliver the right dose at the right place. - Dose Reporting - provides access to the CTDIvol and DLP with the patient record prior and post exam. DICOM Structured Dose Report is also supported. - Dose Check - provides prospective dose alerts and warnings if pre-determined dose levels will be exceeded. - CT 4Kids - Dose-optimized, procedure based protocols for pediatric imaging provide more options for ensuring balanced radiation dose and image quality for specific pediatric applications. (In clinical practice, the use of ASiR may reduce CT patient dose depending on the clinical task, patient size, anatomical location and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task.)

o Smart Flow - Xstream Display: A multi-purpose LCD display on the gantry that provides the following functionality. o Basic patient information on the gantry allowing the user to confirm patient information in the scan room, improving workflow. o Default Patient

Positioning provides target reference points at table side allowing streamlined patient positioning for the user. o Movie function to assist the user in explaining the examination to patients. o One Stop Scanning Mode: Provides a streamlined workflow such as patient selection, protocol selection and confirm. Pre-scanning can be accomplished in as few as five touches. - Emergency patient mode is a dedicated user interface for emergency cases to start the examination quickly. Patient Name/Patient ID are assigned automatically and once a protocol is selected, the scan setup interface displays. - Dynamic Transition - allows the scan phase to start automatically when the HU of the transition ROI reaches the desired enhancement threshold. - AWE Connect: For facilities that have a GE AW server, this provides direct access to AW server post-processing software.

o Smart Cardiac - SnapShot(TM) Assist (Optional, requires low dose cardiac package): Designed to enable successful cardiac acquisitions the first time. - SnapShot(TM) Freeze (Optional, requires purchase): Helps significantly reduce coronary motion, transcending the limits of a hardware only system. - SnapShot(TM) Pulse (Optional, requires low dose cardiac package): Allows you to prospective gating of the coronary arteries and structures that are near the heart. o Smart Spectral - GSI Assist (Optional, requires purchase of GSI): Helps users select the corresponding preset for a targeted CTDI for a comparable non-GSI AutomA scan. - GSI Viewer 3D (Optional, requires purchase GSI viewer on AW) leverages routine post-processing capabilities for improved visualization of spectral information

Gantry: o Xstream Display o Aperture: 70 cm o

Rotational speeds: VariSpeed technology 360 degrees in 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0 seconds
o Integrated breathing lights & countdown timer
o Integrated start scan button with countdown timer
o Tilt: +/- 30 degrees, 1 degree per second
o Remote tilt from operator's console

Performix HD X-ray Tube: Performix HD tube with electrostatic cathode collimator design allows the focal spot to be dynamically positioned and

customized to the clinical protocol and patient. The anode heat storage capability and wide range of technique gives you the flexibility to tailor protocols for even the most demanding acute care and cardiac exams without tube cooling.
o Heat storage capacity: 8.0 MHU
o Maximum power: 100 kW (835mA)
o Small focal spot power: 570mA at 120kv, standard solution
o Small focal spot power: 420mA at 120kv, high resolution
o Beam collimated to 56-degree fan angle
o Heat dissipation: -Anode (Max)>2,100 KHU/min -Casing (cont) 648 KHU/min
o Dynamic Z-Axis Tracking: Automatic and continuous correction of the x-ray beam position to block unused x-ray at the beginning and end of a helical scan to reduce unnecessary radiation.
HD High Voltage Generator: The HD Generator allows for continuous high power demands required for acute care, cardiac and bariatric exams. It also supports fast kV switching capabilities
o 100 kW Output Power
o kV: 80, 100, 120,140
o Energy Switching Speed: up to 0.25 msec
o mA: 10 to 835, in 5 mA increments
Maximum mA for each o kV selection/Max mA: - 80 kV / 700 mA - 100kV / 800 mA - 120kV / 835mA - 140kV / 715mA

Volara HD Digital Data Acquisition System

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

Integrated Laser Alignment Lights: o Internal and external scan planes to +/- 1 mm accuracy o Coronal light remains perpendicular to axial light as gantry tilts making visual readout easy from tableside or the operator console

Patient Table: o Designed for easy patient access and stability o Vertical range: 43 cm to 99.1 cm, scannable: 78.5 cm to 99.1 cm o Horizontal range: 1700mm, (2000mm option) o Horizontal speed: up to 137.5 mm/sec o Table automatically re-centers on scan plane with changes in vertical position o Helical pitches: 0.5:1, 0.9:1, 1.375:1, 1.531:1 o Capacity: 227kg(500lb) +/- 0.25mm positional accuracy o Heavy Capacity (Optional): 306kg (675lb) with 2,000 mm scannable range

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

o Delivers up to 35 ips full fidelity reconstruction o Delivers up to 55 fps reconstruction time with image check. Provides 340x340 matrix images for confirming reconstructed image coverage in real time and tracking up to 1800mm length with less than 1s delay. o Up to 16 ips network transfer rates o Direct Multiplanar Reformat (DMPR) enables prospective 3D review of sagittal, coronal and oblique planes automatically o Exam Split delivers the capability to split a series of patient images into

separate groups for networking o Data Export and Interchange that allows you to easily share images with referring physicians and patients o Complete set of clinically proven, low dose protocols and the ability to customize your own for a total of 8,460 programmable protocols. Xstream allows you to automate or build every task into protocols to increase throughput. o Image decomposition to: -Retrospective thin images from data sets where thicker images were initially reconstructed Facilitates more detailed image & analysis -Improves 3D and reformat visualization o Neuro 3D Filters provide users the capability to filter angiographic data using a specially designed and optimized 3D filter. May be prospectively applied with Application Auto-Launch o VariViewer is an interactive axial review mode that can change the slice thickness reconstruction instantaneously

Scan: Xstream HD workflow allows simultaneous scanning, image reconstruction, display, processing and analysis, as well as networking, archival and filming. o Anatomical programmer allows quick and easy access to user programmable protocols, including adult and pediatric protocols o Protocols include preset scan time, kV, mA, scan mode, image thickness and spacing, table speed, scan FOV, display FOV and center, recon algorithm, networking destination, archiving and special processing options like Direct MPR o AutoVoice: 3 preset (English) and 17 user defined messages automatically deliver patient breathing instructions, especially useful for multiple helical scanning o Reconstruction Algorithms: Soft Tissue, Standard, Detail, Bone, Bone Plus, Lung and Edge

Image Networking o Exam Transfer up to 16

frames per second on dedicated 1 Gbit connection o Standard auto-configuring Ethernet (UTP connection) 1000/100/10 BaseT Direct network connection; multi-suite ethernet card not required for gateway out of suite o Protocols supported: DICOM network send (one IP address at a time) and receive, pull/query, and storage commitment push, InSite point-to-point

Host Computer PC: HP Z800 Workstation CPU : Intel Six core 2.66GHz X5650 Processor O/S 64-bit Cache: 12 Mb cache RAM: 48GB DDR3-1333MHz Storage: 2x300GB SAS for system and image RAID5 with 10x300GB SAS for raw data

Peripheral Components o Scan control interface assembly with intercom speaker,microphone, volume controls and controls for table and gantry tilt o 19in 1280x1024 Color LCD Monitor (2 standard) o 104-Key USB 2.0 Keyboard o 3-Button USB 2.0 Mouse o 3-Button USB 2.0 Trackball (Option) o Slim-Line Tray-Load 16X DVD-ROM Optical Drive SATA 1st Drive o 5.25 in Bare Media o 9.4 GB Capacity o 480 Mb/s o USB 2.0 port interface supports External Hard Drive for Scan Data and USB key for System

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

InSite Broadband included: All hardware and software required to connect this CT system to

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

For US and Canadian Customers, this quotation includes access to the DoseWatch Explore application for a period of time concurrent with the system warranty. 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.

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

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

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

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

This product is a CE-compliant device that satisfies regulations regarding Electro-Magnetic Compatibility (EMC) and Electro-Magnetic

Interference (EMI), pursuant to IEC-60601-1-2.

This product complies with the NEMA XR
29-2013 / MITA Smart Dose Standard.

Siting Considerations: See the Pre-Installation
manual for details of the siting requirements for
Revolution HD.

1 English Keyboard Kit
English Keyboard Kit

1 Standard Cable set
Standard length cable set

1 VT2000 TABLE

The CT system 2000 table enables volume
scanning. Key features of the VT 2000 table
include: 500 lb weight capacity, 2000 mm
scannable range, 175 mm/sec travel time,
real-time position control to support advanced
application such as SnapShot Pulse,
VolumeShuttle, and Volume Helical Shuttle.

1 LOW DOSE WITH SSF

PRE-REQUISITE:CardIQ Xpress Reveal 2.0 on an
AW Server

The Low Dose 5-Beat Cardiac with SnapShot
Freeze and SnapShot Assist allows the user to
acquire cardiac imaging exams with
retrospective or prospective gated acquisitions
utilizing up to 0.35 second rotation speed for
excellent cardiac exams. This package contains
the following items necessary for CT Coronary
Angiography:

The SnapShot Freeze motion correction
package includes a comprehensive solution to
correct for the problems of motion that may
occur in cardiac imaging.

SnapShot Freeze:

An intelligent motion correction algorithm, which is designed to reduce blurring of coronary arteries due to motion artifacts. Characterizing the vessels' motion path and velocity from adjacent cardiac phases on a vessel-by-vessel and segment-by segment basis does this. This information is then used to calculate the coronary artery vessel position at the target phase. Utilization of SnapShot Freeze in clinical practice may assist the physician's diagnostic interpretability of coronary CTA by reducing the burden of non-diagnostic segments.

Using a mechanical heart phantom it was shown that SnapShot Freeze reduces motion artifacts up to 6X, equivalent to a 0.058s equivalent gantry rotation speed with effective temporal resolution of 29ms*.

SnapShot Pulse

- Prospectively gated cardiac scanning technique that helps reduce patient dose by up to 83%, and improves cardiac workflow, with excellent image quality. In essence, the technique captures a complete picture of the heart using a series of three to four snapshots taken at precise patient table positions and precisely gated (relative to conventional cardiac CT acquisitions).

SnapShot Pulse helps improve workflow by reducing the size of image set to be reconstructed, reviewed and post processed. A typical SnapShot Pulse series consists of 280 to 400 images, compared with up to 3,000 images in a typical helical cardiac scan series. Since there's a smaller number of images to reconstruct, SnapShot Pulse takes less time, yet

still delivers the same amount of information as a helical cardiac exam.

SnapShot Imaging

- Retrospectively gated helical gated cardiac scanning technique used to acquire ECG gated CT images of the coronary arteries when prospective gating can't be used.
- SnapShot imaging option allows users to acquire cardiac images of patients using the following cardiac imaging techniques: (1) Retrospectively EKG-gated helical scanning method - SnapShot: primarily used for cardiac morphology imaging, with this technique, cardiac images of single or multiple cardiac phases at any given Z-axis location can be acquired and generated. (2) EKG-gated Multi-slice CINE Scan mode: used primarily for coronary artery calcification scoring (CACS) studies or for cardiac morphology Imaging.

Once a specific imaging model is selected, helical pitch and/or gantry rotation speed will be automatically selected for optimal scan coverage and image quality.

SnapShot Assist:

- Helps users Optimize ECG-gated CT acquisitions based on patient heart rate characteristics. SnapShot Assist uses the patient's recorded heart rate information to display scan parameters (including scan mode, cardiac phases, padding and pitch) that could be used during the cardiac CT scan. SnapShot Assist generates a cardiac scan parameter recommendation using the patient's ECG analysis and user defined protocol selection algorithm. It uses the patient's

recorded heart rate

information to predict the heart rate behavior during a CCTA scan to assist the user with optimization of the parameters on a per-patient basis. Acquisition parameters displayed include scan mode (Cine SnapShot Pulse, Helical SnapShot Segment, etc.), cardiac phases, padding, and pitch. User Profiles define scan parameters within the heart rate and variability categories for a specific patient group and cardiac scan mode.

Xtream 12" Gantry and Operator Console ECG Trace

The ECG trace provided by the ECG monitor will be displayed on the CT gantry and operator's console with this option. Allowing the user to display the live trace of the patient's heart rate and display the actual location of the window of time when the image are being acquired. It will provide easy access to patient cardiac output status and assist in providing visual feedback for optimum acquisition start.

ECG Editor:

The ECG Editor allows the user to retrospectively modify trigger points identifying R-peaks on ECG trace as displayed on the console. The capability may improve successful cardiac acquisition rate by enabling users to perform the modification in the cases with irregular heartbeat or suboptimal triggers.

Cardiac Enhance:

Cardiac Enhance Filters provides users the capability to reconstruct filtered images using three steps of noise (pixel noise standard deviation) reduction for helical and axial cardiac imaging, which may allow a reduction

of mA while maintaining an acceptable level of image performance.

ECG Dose Modulation:

ECG gated dose modulation reduces patient dose by modulating x-ray technique during acquisition based on heart phase.

The ECG monitor comes with this cardiac package. It will be used to monitor patient cardiac output and synchronize acquisition with that output.

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Xtream Integrated Injector Interface Kit - Class IV

Xtream 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.

It utilizes the CiA Class 4 functionality which includes the following benefits:

Up to a 50% reduction in the number of user interface selections needed when compared to systems not utilizing the Xtream Injector. The 50% reduction comes from the fact that users select one button to start the scan acquisition and injection.

- o Better control of contrast enhancement by synchronizing start time of the contrast injection and CT scan
- o Improved workflow by enabling single-button start of both the injector and scanner from the scanner
- o Injection parameter preview from the scanner console prior to beginning the scan
- o Post-study review of injection results from the scanner console
- o Automatic documentation of injection results in PACS

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Bar Code Reader -USB

USB Bar Code reader for use with ConnectPro (optional) Connect Pro - Offers New Levels of Productivity by Providing a Connection Between the Facilities Hospital (HIS) or Radiology (RIS) Information System. ConnectPro Simplifies and Eliminates Errors in Patient Data Entry.

1

Uninterruptible Power Supply for CT systems

Un-Interruptible Power Supply

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

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125A Main Disconnect Panel (US)

The 125 Amp CT System Main Disconnect Panel (MDP) serves as the main facility power disconnect source installed ahead of the system PDU. The MDP will disconnect system power on first loss of incoming power, helping to prevent damage to system components. It also includes an automatic restart control circuit which restores power to the CT System PDU after a power outage.

- Can reduce installation time and cost by

eliminating delays in obtaining individually enclosed components and on site assembly (ex: main circuit breaker, feeder overcurrent devices, magnetic contactors and UPS emergency power off are combined into a single panel

- Configuration flexibility - can be used as a stand-alone main disconnect or with the optional partial system UPS. (On systems where the optional partial system UPS is used the main disconnect panel also provides NEC mandated emergency power off control to both the PDU and UPS
- Designed and tested for GEHC CT products

SPECIFICATIONS

- Automatic restart incorporates an adjustable time delay to delay main power until the power has stabilized for 5 seconds
- One flush wall mounted remote emergency off pushbutton furnished with each system
- UL, cUL and CE labeled

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Medrad Stellant D Dualflow Ceiling Mount for Medium Post - Integrated Injector ISI Ready

Medrad Stellant Integrated Injector - ISI 900

The Imaging System Interface (ISI 900) is an option that allows a Stellant CT Injection System to interface with a CT scanner. It interacts with an injector and scanner through direct cable connection.

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OCS III MOUNTING PLATE

OCS III MOUNTING PLATE

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CT Table Slicker with Cushion - 2000 Systems
(2-pc Set)

CT Table Slicker with Cushion - 2000 Systems (2
Piece Set)

FEATURES/BENEFITS

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

COMPATIBILITY

- VCT with GT 2000 Table, CT HD750

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CT Footswitch Slicker - 2000 & 1700 Systems

CT Footswitch Slicker - 2000 & 1700 Systems

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

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Revolution CT Customer Excellence Training

Revolution CT Customer Excellence Training

The Revolution Experience: Clinical Education
Program

22 Days Onsite and 16 Hours of TiP Virtual
Assist (TVA)

This training will begin with a Revolution Partnership Meeting, approximately 4-6 weeks prior to the first onsite training week. The purpose of this meeting is to identify the core group of technologists and radiologists who will participate in onsite training, understand the site's level of prior GE experience, discuss key factors necessary to ensure successful training, identify critical needs and clinical areas of focus, and discuss the preferred timeline and content for the first year of onsite training.

Initial training will include 8 days during a 2 week turnover. The Clinical Applications Specialist will work with staff to introduce them to the Revolution Clarity user interface, review the system components and how they impact clinical scanning, discuss the Revolution protocols and begin patient scanning. Protocol and image quality review will be completed with the radiologist(s).

The timing and content of the follow up visits will be customized to the clinical priorities of the site. Follow up visits will include advanced features and imaging for specific clinical applications such as cardiac and perfusion. Results of technologists assessments at the end of each of the initial training sessions will also be used as a guide for the content and focus of the follow up training. TiP Virtual Assist training will also be used to provide access to GE Clinical Applications Specialists who can answer questions as well as perform virtual troubleshooting, remote observation, image quality checks and to provide additional training.

This training program must be scheduled and completed within 12 months after the date of product delivery. Onsite training and TVA are delivered Monday through Friday between 8AM

and 5PM.

1 TiP Training Package 10 Onsite Days Plus 10 Hrs TVA

CT Training Package, Non Discountable
Includes 10 days onsite and 10 hours TVA.

Training is provided from 8AM to 5PM, Monday through Friday. Includes T&L expenses.

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

1 REVOLUTION CT SVC TRNG

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.

1 CT LS 7X & OPTIMA 660

CT LightSpeed 7x and Optima 660 (Class/Lab)

The CT LightSpeed 7x & 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 Optima 660. This training must be used within 2 years from the purchase date.

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CT LIGHTSPEED PRO ADV SER

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.

21

Meals And Lodging Expense

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.

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.

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.

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.

Only for In-resident courses to be taken at the GE Healthcare Institute.

3

Airfare Expense

The AIRFARE EXPENSE has been 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.

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

2

Lodging Weekend Expense

Lodging Weekend Expense

Weekend Lodging Expense is to cover Saturday and Sunday lodging expenses for those engineers who are staying at the Rivers Edge Condos while attending Diagnostic Imaging Biomed training at the Healthcare Institute. Please note that there are no meals included on the weekend. Must be used within 2 years from the purchase date.

1

CT Basic Physics/Instrumentation (web)

CT Basic Physics/Instrumentation (Web)

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.

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CT LIGHTSPEED PRO ADV SVC

CT Lightspeed Pro Advanced Service (Web)

Web course is 8 hours long

Sales Description:

Introduction to CT LightSpeed Pro system theory and subsystems

Executive Summary:

This is a computer-based training course intended to prepare Service Engineers on basic system theory for the LightSpeed Pro product line.

Course Competencies:

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 classes at the GE Healthcare Institute.

Special Considerations:

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, NT 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.

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CT GLOBAL OPR CONSOLE 6

CT LightSpeed Global Operators Console 6

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.

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CT TRUE IN ONE CONSOLE

CT True In One Console Service (Web) This course covers the following topics on the True in One Console: Console Models, Hardware details and mechanical layout, Installation and FRU replacement, Troubleshooting using command lines and diagnostics. This course must be taken within 2 years from the purchase date

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OPTIMA CT660 SERVICE (WEB)

Optima CT660 Service (web)

This upgrade course taken online is intended for Support Engineers who have previous LightSpeed 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.

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Troubleshooting Basics Service (web)

Troubleshooting Basics Service (Web)

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.

1

NETWORKING & DICOM BASIC

Networking and Dicom Basic for DI Service (Web)

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.

This course covers the following:

- Introduction to 7 layer OSI and 5 layer TCP/IP protocols (Basic model only)
- 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.

Trade of Existing GE VCT

Options

(These items are not included in the total quotat

1

SmartStep with Monitor

SmartStep for CT Scanner
Systems (Includes In -Room
Monitor & Boom)

SmartStep Enables an Imaging
Mode for Performing Biopsies
and Other Interventional
Procedures. An In-room Monitor,
Hand Held Controller, X-ray
Exposure Foot Pedal and Cradle
Handle Provide In-room Control
for Image Acquisition and Image
Review. The Hand Held Controller
Provides the Operator with
Controls to Prepare the Scanner
for Imaging, to Turn Alignment
Lights On and Off, to Move the
Cradle, Review Images and
Adjust the Window Width and

Level; and the Foot Switch
Provides In-room Control of X-ray
On.

A Highly Functional Image
Display Presents a Set of 3
Interventional Images in 3
Viewports, a Free Viewport, and
Timers for the Remaining and
Accumulated Time. The Display
Control Panel Provides Room,
Zoom, Magnify, Measurement,
Annotation, Grid, Image
Orientation, and Save Screen
Image Review Capabilities. Data
Acquisition Includes a 4i Data
Acquisition Mode Using 4x1.25
mm, 4x2.25 mm, and 4x3.75 mm
Detector Configurations and a 3i
Reconstruction Mode to Create
2.5, 3.75 and 7.5 mm Thick 512
Matrix Images. All Scan Fields of
View and Reconstruction
Algorithms are Available with 0.8s
and 1.0s Gantry Rotation Speed.

System Includes the In-room
Monitor & Boom .

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SmartView Fluoro with Monitor

SmartView(TM) Fluoro Package
Includes In-Room Monitor and
Boom

SmartView Enables an Imaging
Mode for Performing Biopsies
and Other Interventional
Procedures. An In-room Monitor,
Hand Held Controller, X-ray
Exposure Foot Pedal and Cradle
Handle Provide In-room Control

for Image Acquisition and Image Review. The Hand Held Controller Provides the Operator with Controls to Prepare the Scanner for Imaging, to Turn Alignment Lights On and Off, to Move the Cradle, Review Images and Adjust the Window Width and Level; and the Foot Switch Provides In-room Control of X-ray On.

Image Display presents single or multi real time image display, a Free Viewport and timers for the remaining and accumulated exposure time and estimate of dose. The Display Control Panel Provides Roam, Zoom, Magnify, Measurement, Annotation, Grid, Image Orientation, and Save Screen Image Review Capabilities. Data Acquisition Includes a 4, 8 or 16 row Data Acquisition Mode Using 4x0.625mm, 8x0.625 mm 16x0.625mm Detector Configurations and a 3i (8 FPS) or 1i (12 FPS) Reconstruction Mode to Create 1.5 (3i only), 2.5, 5 and 10mm (1i only) thick 340 Matrix Images. All Scan Fields of View and Reconstruction Algorithms are Available with 0.4, 0.5, 0.8s and 1.0s Gantry Rotation Speed. Tilted acquisition capability

Customers upgrading LightSpeed VCT systems require a GOC6 or higher console platform.

LOW DOSE WITH SSA

The Low Dose 5-Beat Cardiac with SnapShot Assist package allows the user to acquire cardiac imaging exams with retrospective or prospective gated acquisitions utilizing up to 0.35 second rotation speed for excellent cardiac exams. This package contains the following items necessary for CT Coronary Angiography:

SnapShot Pulse

- Prospectively gated cardiac scanning technique that helps reduce patient dose by up to 83%, and improves cardiac workflow, with excellent image quality. In essence, the technique captures a complete picture of the heart using a series of three to four snapshots taken at precise patient table positions and precisely gated (relative to conventional cardiac CT acquisitions).

SnapShot Pulse helps improve workflow by reducing the size of image set to be reconstructed, reviewed and post processed. A typical SnapShot Pulse series consists of 280 to 400 images, compared with up to 3,000 images in a typical helical cardiac scan series. Since there's

a smaller number of images to reconstruct, SnapShot Pulse takes less time, yet still delivers the same amount of information as a helical cardiac exam.

SnapShot Imaging

- Retrospectively gated helical gated cardiac scanning technique used to acquire ECG gated CT images of the coronary arteries when prospective gating can't be used.
- SnapShot imaging option allows users to acquire cardiac images of patients using the following cardiac imaging techniques: (1) Retrospectively EKG-gated helical scanning method - SnapShot: primarily used for cardiac morphology imaging, with this technique, cardiac images of single or multiple cardiac phases at any given Z-axis location can be acquired and generated. (2) EKG-gated Multi-slice CINE Scan mode: used primarily for coronary artery calcification scoring (CACS) studies or for cardiac morphology Imaging.

Once a specific imaging model is selected, helical pitch and/or gantry rotation speed will be automatically selected for

optimal scan coverage and image quality.

SnapShot Assist:

- Helps users Optimize ECG-gated CT acquisitions based on patient heart rate characteristics. SnapShot Assist uses the patient's recorded heart rate information to display scan parameters (including scan mode, cardiac phases, padding and pitch) that could be used during the cardiac CT scan. SnapShot Assist generates a cardiac scan parameter recommendation using the patient's ECG analysis and user defined protocol selection algorithm. It uses the patient's recorded heart rate information to predict the heart rate behavior during a CCTA scan to assist the user with optimization of the parameters on a per-patient basis. Acquisition parameters displayed include scan mode (Cine SnapShot Pulse, Helical SnapShot Segment, etc.), cardiac phases, padding, and pitch. User Profiles define scan parameters within the heart rate and variability categories for a specific

patient group and cardiac scan mode.

Xtream 12" Gantry and Operator Console ECG Trace

The ECG trace provided by the ECG monitor will be displayed on the CT gantry and operator's console with this option. Allowing the user to display the live trace of the patient's heart rate and display the actual location of the window of time when the image are being acquired. It will provide easy access to patient cardiac output status and assist in providing visual feedback for optimum acquisition start.

ECG Editor:

The ECG Editor allows the user to retrospectively modify trigger points identifying R-peaks on ECG trace as displayed on the console. The capability may improve successful cardiac acquisition rate by enabling users to perform the modification in the cases with irregular heartbeat or suboptimal triggers.

Cardiac Enhance:

Cardiac Enhance Filters provides users the capability to reconstruct filtered images using three steps of noise (pixel noise standard deviation) reduction for helical and axial cardiac imaging, which may allow a reduction of

mA while maintaining an acceptable level of image performance.

ECG Dose Modulation:

ECG gated dose modulation reduces patient dose by modulating x-ray technique during acquisition based on heart phase.

The ECG monitor comes with this cardiac package. It will be used to monitor patient cardiac output and synchronize acquisition with that output.

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GemStone Spectral Imaging Option

Gemstone Spectral Imaging is an innovative dual energy scan mode that uses two nearly simultaneous scans at two different energy levels to generate material characterization information. The Discovery CT750 HD Performix HD tube and HD generator are capable of switching energy at very high speeds. By acquiring this multiple energy scan data, patient data with different attenuation values corresponding to the energy levels is generated. These scan data are utilized to help identify material-specific differences in attenuation in terms of Water & Iodine, Water & Calcium, and Iodine & Calcium basis-pair

images, allowing mono-chromatic image representations via the Gemstone Spectral Imaging viewer.

Gemstone Spectral Imaging option enables the Discovery CT750 HD system to switch the kV from high to low at a very fast switching rate of up to 4.8kHz and utilizes the fast response of the GE Gemstone Detector to capture the spectral imaging data sets that are registered to within micro-seconds. This fast switching reduces the registration artifacts generated by some dual energy methods. Gemstone Spectral Imaging has the following image quality benefits and capabilities:

- o registers energies more than 165 times faster than a dual source CT system at 0.35 second rotation speed.
- o generates derived images over a 50cm SFOV for the separation of materials such as calcium, iodine and water.
- o provides derived monochromatic spectral images at 101 user selectable energy levels for image contrast optimization.
- o reduces beam hardening artifacts due to bone, metal, and other high contrast material (example: iodine) up to 50%
- o can detect iodine concentrations as low as 0.5% in density

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

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GSI Cardiac Option

The GSI Cardiac option allows for Spectral Imaging in prospective cardiac gating modes. The ability to alternate two kV energies at 0.5msec leads to unprecedented temporal registration (over 140 times faster than other Dual Energy technology) important for Cardiac imaging. GSI processing separates the interleaved raw datasets and using a pair of material attenuation characteristics, decomposes the raw data into a pair of material density images. The material decomposition is achieved by a high order polynomial fit between the two acquired energies subject to the

constraints of the known material attenuation characteristics. These material decomposed images together with the material attenuation characteristics enable synthesis of monochromatic spectral energy images ranging from 40 to 140 keV.

Material Density images and monochromatic spectral images may enable the following:

- Enhanced accuracy of coronary vessel diameter assessment*.
- Potential to reduce Beam Hardening artifacts to improve the accuracy of perfusion assessments when Beam Hardening is a concern.
- Information to assist with plaque material composition assessments via the HU Spectral curves.

GSI Cardiac is an option only available with Discovery CT750 HD and requires Gemstone Spectral Imaging and Cardiac Imaging options with an ECG Monitor.

*As measured in a phantom using iodinated contrast material and hydroxyapatite.

The Revolution Experience:
Continuing Education Program -
Years 2 & 3

16 Days Onsite and 16 Hours of
TiP Virtual Assist. Delivered during
Year 2 and Year 3.

Ongoing training is vital to ensure your staff maintains a high level of CT scanning expertise. To help you achieve your constantly evolving staff needs, GE Healthcare offers a multi-year training package specifically for the Revolution CT. This package is designed to be flexible so that you can tailor the training content to your staff needs over time, whether it is to train new staff, refresh on previous training, or receive training on advanced scanner features, advanced applications or a new product release. Staff members will be assessed at the end of each training session and these assessments will be used to guide future training content. TiP Virtual Assist training will also be used to provide access to GE Clinical Applications Specialists who can answer questions as well as perform virtual troubleshooting, remote observation, image quality checks and to provide additional training.

This training program must be scheduled and completed within

3 years after the date of product delivery. Onsite training and TVA are delivered Monday through Friday between 8AM and 5PM.

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4 Days Ct Onsite

4 Days CT TiP Onsite Training

Four Days CT Onsite Training provided from 8AM to 5PM, Monday through Friday. Includes T&L expenses. Days provided consecutively.

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

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TiP HQ Class Discovery CT750 HD
- Full Service

TiP HQ Class CT750HD - Full
Service

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

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

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