

TRADE IN

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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 prospectively 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. Xtream 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: Xtream 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 Standard length cable set
- 1 The VT 1700 table enables volume scanning. Key features of the VT 1700 table include: 500 lb weight capacity, 1700 mm scannable range, 175 mm/sec travel time, real-time position control to support advanced applications such as SnapShot Pulse, VolumeShuttle and Volume Helical Shuttle. .
- 1 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 reduces 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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Trackball

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Chair for CT scanner

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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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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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CT Table Slicker with Cushion - 1700 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 1700 Table, CT HD750

1 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

1 TiP Applications Discovery CT750 HD Upgrade Training

TiP Applications Discovery CT750 HD Training includes: 8 onsite days covered in two site visits and 10 hours TVA

All elements of the programs are completed within 36 months post installation.

Onsite training and TVA are delivered Monday through Friday between 8AM and 5PM. T&L expenses are included.

1 **Non-Product Config**  
**NonProducts**

1 Rigging CT out

1 Medrad PACS SW -Injector

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**Trade of Brilliance CT**