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#### REVOLUTION EVO SYSTEM

Revolution EVO is the next generation Volume CT with Clarity Imaging Chain and ASiR-V\*. Clarity Imaging Chain consists of Clarity Detector, DAS, Performix\*40 Plus X-ray Tube and ASiR-V reconstruction, and delivers high resolution imaging to meet various customer needs in real clinical situations. Clarity Imaging Chain delivers higher spatial resolution, lower noise, or less-artifact.

ASiR-V\* ASiR-V is the newest technology in GE's family of industry-leading iterative reconstruction techniques. ASiR-V allows healthcare providers to lower dose by up to 82% as compared to standard filtered back-projection (FBP) reconstruction at the same image quality<sup>1</sup>

ASiR-V may provide with the following. ASiR-V reduces dose by 50% to 82% relative to FBP at the same image quality<sup>1</sup> ASiR-V improves low contrast detectability by 59% to 135% at the same dose+ ASiR-V reduces image noise up to 91% at the same dose+ ASiR-V improves spatial resolution up to 2.07X (107%) at same image noise+ ASiR-V image reconstruction has the capability to reduce low signal artifact such as streak artifact compared to FBP+ Image quality as defined by low contrast detectability. In clinical practice, the use of ASiR-V may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. 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. Low Contrast Detectability (LCD), Image Noise, Spatial Resolution and Artifact were assessed using reference factory protocols comparing ASiR-V and FBP. The LCD measured in 0.625 mm slices and tested for both head and body modes using the MITA CT IQ Phantom (CCT183, The Phantom Laboratory), using model observer method.

Clarity Imaging Chain Revolution EVO's Clarity Imaging Chain consists of Clarity Detector, DAS, Performix\*40 Plus X-ray Tube and ASiR-V reconstruction, to deliver high resolution imaging.

Clarity Imaging Chain provides the following: For better performance Volume CT, Clarity Imaging Chain provides enhancement of spatial resolution up to 20% compared with previous GE technology. Designed as analog cable free between ASIC and Diode, and has a capability to reduce electric noise. Designed for less heat generation, up to 90% compared with previous GE technology and all in one DAS / Detector. It has capability to reduce electric noise. Designed for less floor-noise, up to 44% compared with previous GE technology and it has capability to reduce electric

noise. Optimized collimator with ability to reduce scatter noise. Performix40\* Plus X-ray tube provides less focus movement. A liquid bearing tube that has a capability of less-wear of Tube bearing and is enabled up to 0.35sec rotation speed with a routine scan. Revolution EVO allows users to utilize helical pitches up to 1.531 and 0.35sec rotation speed that meets GE's image quality specifications for lower pitch acquisitions. This high pitch and 0.35sec rotation speed enables faster scan times which may allow for shorter breath holds, and may help to avoid sedation, simultaneously reducing motion artifacts from patient and organ movement. As an example, using this higher pitch, a full-body trauma scan of 1000 mm can be acquired in as little as 6 seconds.

Key Features: Excellent Performance: Silent design of Revolution EVO gantry allows significant reduction of audible noise compared with previous GE technology.

IQ Enhance (IQE) reconstruction reduces helical Artifact Index in thin slice helical scanning. This reduction in artifacts makes it possible to scan at faster helical pitches. GE protocol management is improved with the addition of a workflow improvement feature, which allows easy configuration of back to back Axial or helical scans of the same anatomy at two different X-ray energies (kVps). To further improve registration accuracy, patient immobilization may be utilized. The additionally acquired dual energy data can be post-processed on console or AW workstation using Add/Sub function to gain additional clinical information. The overlapped reconstruction feature enables 128 slices per rotation in axial scanning modes and delivers improved Z-axis visualization performance relative to non-overlapped reconstruction. Adaptive Enhance Level Adjustment (AELA) may improve visual spatial resolution while maintaining pixel noise standard deviation and artifact. Organ Dose Modulation provides reduction of radiation dose via X-ray tube current modulation for superficial tissues, such as breasts. AutomA/SmartmA\* modulates X-ray tube mA to account for specific patient anatomy based upon data gathered from the scout image. The system predicts the optimal setting for the exam and adjusts mA to these settings.

Dynamic Z-axis tracking provides automatic and continuous correction of the x-ray beam shape to block unused x-ray at the beginning and end of a helical scan to reduce unnecessary radiation. Xstream Display is a multi-purpose LCD display and Xstream Display can show basic patient information on the gantry monitor. The user can confirm patient information in the scan room, enhancing workflow improvement with preset positioning (Default Patient positioning) on gantry display. Revolution EVO's exceptional one stop scanning mode provides a streamlined workflow on the Xstream Display such as "Patient selection", "Protocol selection" and "Confirm". Pre-scanning can be accomplished in as few as five touches. Direct MPR with Auto-Batch feature, affording automatic real-time direct reconstruction and transfer of fully corrected multi-planar images, also allows users to move from routine 2D

review to prospective 3D image review of axial, sagittal, coronal, and oblique planes while enabling automated protocol-driven batch reformats to be created and networked to their desired reading location. Dose Check provides users with tools to help them manage CT dose in clinical practice and is based on the standard XR-25-2010 published by The Association of Electrical and Medical Imaging Equipment Manufacturers (NEMA). Dose Reporting: CTDIvol, DLP, Dose Efficiency displays during scan prescription and provides dose information. The CTDIvol, DLP, and Phantom size used to calculate dose is automatically saved once the user selects End Exam. DICOM Structured Dose Report generates a CT Dose Report, which can enable tracking of dose (CTDIvol and DLP) for the patient by the hospital radiation tracking system/RIS/HIS.

Scan mode: Helical Helical Scan Speeds: Full 360 rotational scans: 0.35, 0.375, 0.40, 0.425, 0.45, 0.475, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0 second Helical Pitch (nominal): 0.516 to 1.531 Cardiac Pitch: 0.16 to 0.325 Selectable kV: 80, 100, 120, 140 Selectable mA: 10 to 560, 5mA increments Reconstruction Algorithms: Soft Tissue, Standard, Detail, Chest, Bone, Bone Plus, Lung, Ultra, Edge, Edge Plus

Scan Mode: Axial & Cine Scan Speeds: 0.35, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, and 2.0 second full scans

(360 acquisition). Selectable kV: 80, 100, 120, 140 Selectable mA: 10 to 560, 5mA increments Scan Plane Geometry: E 30 gantry tilt, 0.5 increments Reconstruction Algorithms: Soft Tissue, Standard, Detail, Chest, Bone, Bone Plus, Lung, Ultra, Edge, Edge Plus Image Quality 0.28mm high resolution

System Components: Gantry Advanced slip ring design continuously rotates the generator, Performix\*40 Plus, Clarity detector and data acquisition system around the patient. - Aperture: 70 cm Maximum SFOV: 50 cm - Rotational Speeds: 360 degrees in 0.35, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0 seconds - Tilt: +/- 30 degrees, speed 1 degree/sec - multi-purpose LCD touch screen display with workflow features - Integrated start scan button with countdown timer to indicate when x-ray will turn on. X-ray Tube: Performix\*40 plus liquid metal bearing tube unit offers an optimized design for exams requiring a number of scans without tube cooling. Performix\*40 Plus with 7.0MHU of storage and capability of 72 kw operation provides increased helical performance with greater patient throughput Wide range of technique (10 mA to 560 mA in 5 ma increments) gives technologist and physician flexibility to tailor protocols to specific patient needs for optimizing patient dose.

- Heat storage capacity: 7.0MHU (Performix\*40 Plus)
- Dual Focal Spots: Small Focal Spot: 0.7 (W) x 0.6 (L) Nominal Value; (IEC 60:193)
- Large Focal Spot: 0.9 (W) x 0.9 (L) Nominal Value; (IEC 60:193)
- Maximum power: 72kW High Voltage Generator: High Frequency on-board

generator allows for continuous operation during scan.

- 72 kW Output Power
- kVp: 80, 100, 120, 140 kVp
- mA: 10 to 600 mA Maximum mA for Each kVp Selection:
- 400mA @ 80kVp
- 480mA @ 100kVp
- 600mA @ 120kVp
- 515mA @ 140kVp V-Res\* Detector: 54,272 individual elements composed by 64 rows of 0.625mm thickness at isocenter. All data is acquired as thin slice at 0.625mm with the option of thicker slice from image reconstruction or processing.

Clarity DAS (Data Acquisition System): The Clarity DAS dramatically reduces noise and improves image performance.

- 2,460 Hz maximum sample rate.
- 861 - 1968 views per rotation.

Revolution EVO Operator Console: 2,100GB Disk (system, image, scan disks) stores up to 460,000 512\*2images and 3520 scan rotations at 64 slice mode or up to 1,500 scan data files, or up to 300 exams. Reconstruction speed with Standard reconstruction: Up to 35 frames per second.

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. General Electric Company reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation.

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

Asterisk\*: Trademark of General Electric Company

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

		English Keyboard Kit
3	1	Standard Cable Collector Standard Cable set
4	1	VT2000  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. .
5	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 Roam, 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 .
6	1	VolumeShuttle for CT systems  VolumeShuttle innovatively provides the 80-mm of coverage necessary for accurate dynamic neuro angiographic and perfusion studies with a single contrast injection. GE's exclusive real-time scan control, system architecture, and fast, smooth table acceleration and deceleration enable the patient to be effortlessly shuttled back and forth between two adjacent axial locations, with minimal inter-scan delay.  The GE CT Scanner system uniquely designed to make it all possible - as a result of these key scanner attributes:

- The 40-mm high resolution V-Res detector with micro voxel technology.
- Real-time system controls to precisely control table movement and X-ray control.

VolumeShuttle provides the wider coverage margin needed to allow for patient variability in the Circle of Willis (80mm) and from the basal ganglia to lateral ventricles (>60mm) - all with the existing 40-mm-wide detector and without the multiple contrast injections necessary with today's standard CT systems.

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#### Perfusion 4D Neuro option

CT Perfusion 4D Neuro Package is an image analysis software package that allows the evaluation of dynamic CT data following an injection of a compact bolus of contrast material, generating information with regards to changes in image intensity over time. The software provides a quick and reliable assessment of the type and extent of cerebral perfusion disturbances by providing qualitative and quantitative information on various perfusion related parameters, which may be related to acute stroke, brain tumor angiogenesis and treatment thereof. The key perfusion parameters that CT Perfusion, 4D Neuro Package generates are:

- Regional Blood Volume (BV; ml/100g)
- Regional Blood Flow (BF; ml/min/100g)
- Regional Mean Transit Time (rMTT;s)
- Capillary Permeability Surface Area Product (PS)
- Time of Arrival (IRF T0)
- Transit Time to IRF Peak (Tmax;sec)

The user now has the ability to visualize all the information in true volumetric form. Additional elements of Perfusion 4D include Smart Map, a new algorithm that improves the image quality of the functional maps in the presence of noise.

Perfusion 4D also includes a new streamlined workflow for Tissue Classification. Tissue Classification may aid the clinician in determining the status of the tissue based on blood volume and one of blood flow, mean transit time, or Tmax.

Productivity is enhanced through the protocol driven design of the user interface. An example of this is the Brain Stroke Protocol (Automatic) that completes the processing with one touch reducing the time required to process the exam and to enhance repeatability.

System requirements: VolumeViewer on the Console - B7870JA

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#### In-Room Monitor Cable

In Room Monitor Cable for RIO console

9	1	<p>2 Phase Uninterruptible Power Supply</p> <p>Uninterruptible Power Supply</p> <p>Exide Uninterruptible Power Supply. Custom Designed Firmware to Interconnect with LightSpeed Pro, LightSpeed RT, Optima and BrightSpeed Systems. The UPS Primarily Backs Up the System Computer Functions. Bridges Short Power Outages and Provides Time for Crossover from Normal Main Power to Emergency Power. Must be Located Within Eight Feet of the PDU.</p>
10	1	<p>90 Amp Main Disconnect Panel for CT</p> <p>The 90Amp 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.</p> <ul style="list-style-type: none"> <li>• 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)</li> <li>• 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)</li> <li>• Designed and tested for GEHC CT products</li> </ul> <p>Specifications:</p> <ul style="list-style-type: none"> <li>• Automatic restart incorporates an adjustable time delay to delay main power until the power has stabilized for 5 seconds</li> <li>• One flush wall mounted remote emergency off pushbutton furnished with each system</li> <li>• UL, cUL and CE labeled</li> </ul>
11	1	<p>Medrad CT Stellant D w/ Dual Flow - Medium Post 85 cm</p> <p>Medrad CT Stellant D w/ Dual Flow - Medium Post 85 cm</p>
12	1	<p>CT Table Slicker with Cushion - 2000 Systems (2-pc Set)</p> <p>CT Table Slicker with Cushion - 2000 Systems (2 Piece Set)</p> <p>FEATURES/BENEFITS</p>

- 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

13	1	<p>CT Footswitch Slicker - 2000 &amp; 1700 Systems</p> <p>CT Footswitch Slicker - 2000 &amp; 1700 Systems</p> <p>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</p>
14	1	<p>TiP CT Basic Training 6 Days Onsite 10 Hours TVA</p> <p>TiP CT Basic Training 6 Days Onsite 10 Hours TVA</p> <p>TiP Applications CT Basic Training for LightSpeed, LightSpeed VCT and BrightSpeed Systems includes:</p> <ul style="list-style-type: none"> <li>• 6 onsite days covered in two site</li> <li>• 10 hrs. TVA</li> </ul> <p>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&amp;L expenses are included.</p>
15	1	<p>STANDARD SCE PACK L3 W</p> <p>Standard level 3 service package delivered for the warranty period</p>
16	1	<p>DoseWatch 1.4 Single Connection Bundle</p> <p>Single Connection Bundle</p> <p>DoseWatch 1.4 Single Connection Bundle Includes the following items: o Dose Watch Core License that supports 1 device connection o DoseWatch Device license for 1 CT</p>



or Interventional device o DoseWatch IT and Professional Services for 1 device connection o DoseWatch Product Training - Remote

DoseWatch Core-Single license permits the acquisition of radiation dose data from one CT or Interventional device within the DoseWatch system. This license includes, if applicable to CT or Interventional, the following:

o Dose Watch Core License that supports 1 device connection o The implementation of the connection of the device to DoseWatch. Any additional software and/or services required on the device must be purchased by the customer. Depending on the device capabilities, the connection may require sending DICOM MPPS, DICOM Radiation Dose SR, DICOM Images or specific device logs from the device. The actual solution implemented shall be specified by the DoseWatch team.

- Configuration of DoseWatch to process the received data and store radiation dose and acquisition-related data into the DoseWatch database.

Includes the following features:

- Zero footprint web interface, VPN accessible
- Automatic patient dose tracking
- Multi-modality: CT, IR, RF, Rad, Mammo
- Vendor neutral compatibility
- Automated email notifications
- Worklist of upcoming exams with proactive alerts on patient dose history
- List of performed exams by modality, site, device
- Patient multimodality dose history
- Calculation of CT effective dose by target region
- Local study description mapping to RadLex Playbook
- National Reference Levels: reference values, regulatory alerts, preformatted exports
- Configurable automated monthly reports
- Analysis per protocol of exams and patient with dose history
- Automatic SSDE calculation for CT procedures (AAPM TG204)
- Evaluation of CT acquisition quality: isocenter shift, mA modulation
- Automatic cumulative dose incidence map for CV/Int'v procedures
- Comparison tool (per imaging device, exam procedure, date range, etc)

Supports all DICOM standards: MPPS, RDSR, raw image headers. ACR DIR certified software partner: automated to send to ACR DIR. IHE REM compliant for Dose Reporter and Dose Consumer.\*CE\* Marked in compliance with the applicable requirements of

the Directive 93/42/CEE.

Includes 90 Day Warranty.

Customer is responsible for providing an appropriate Hardware configuration defined with GE Healthcare based on the customer site specifics.

#### DoseWatch IT and Professional Services

A dedicated GEHC Project Manager will be assigned to provide and oversee the configuration and installation of purchased DoseWatch software on a server of defined specification (hardware) and configuration of device software licenses on eligible imaging systems.

Customer will provide a (Customer) Project Manager to work directly with the GE DoseWatch project manager in the installation and setup of DoseWatch. The Customer will be responsible for the ongoing maintenance of the hardware that houses the DoseWatch software.

Professional Services will be defined by a specific Statement of Work (SOW).

Excludes:

- Data migration services
- Configuration of RIS and/or interface
- Setup of Systems covered by an OEM or third party service agreement
- Providing for and configuring the hardware/software platform for DoseWatch
- Customer provided software, such as network administration, backup and antivirus solutions
- Customer network and/or firewall configurations to ensure connections and bandwidth

The final quotation is subject to GE Healthcare General Terms and Conditions, GE Healthcare Additional Terms and Conditions-DoseWatch Addendum, and the completed DoseWatch Statement of Work.

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#### DoseWatch Product Training Remote

##### DoseWatch Product Training - Remote

Flexible, modular software training using remote access, either through InSite or WebEx. Instruction is tailored to the customer's needs to support DoseWatch product go-live initial review and configuration. Includes 4 hours of remote instruction.

#### **Quote Summary:**

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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.