



# GoldSeal<sup>™</sup> Revolution<sup>™</sup> CT EX 160 mm

Revolution CT EX configuration is a breakthrough that delivers high-definition image quality and unique clinical capabilities through the convergence of coverage, spatial resolution, temporal resolution and dose performance — all in one. Until now, CT users have had to compromise between systems that could only provide a sub-set of these capabilities.

The Goldseal system will include the following standard new/replaced items: foot switch cover, monitors, CTM-400 cardiac trigger module, table tray, keyboard, revolution scan control box (RSCB), table slicker, long cable set, foot slicker, new cable set, ICM table accessories kit, new QA/water phantoms, new left/right gantry control panels, ECG gating, axial head holder, cradle extender.

Standard GoldSeal system software includes: Fast Scout, SmartPrep, 3D dose modulation, 70 kV scan mode, digital tilt, 256-slice, overlapped recon, dynamic perfusion, .28 sec rotation, high definition, organ dose modulation, Rev CT Xtream recon SW, Rev CT Xtream ER trauma SW, Rev Xtream Stroke SW, volume viewer, lung cancer screening SW, SmartPhase SW, ASiR<sup>™</sup>-V, smart arrhythmia management, cardiac scan modes, temporal enhance, volume viewer.

ASIR-V provides integrated advanced iterative reconstruction technology that reduces noise and reduces low-signal streak artifact at very low signal levels. This technology is designed to deliver reduced noise levels, improved low contrast detectability and may enable a reduction in dose for all clinical applications.

# Gantry

- Aperture: 80 cm
- Focus-to-detector distance: 109.7 cm
- Focus-to-isocenter distance: 62.6 cm
- Scan FOV: 50 cm
- Rotation speeds: 0.28 s, 0.35 s, 0.5 s, 0.6 s, 0.7 s, 0.8 s, 0.9 s, 1.0 s per 360 degree acquisition



- Temporal resolution: 140 ms cardiac temporal resolution without using SnapShot Freeze
- Data chain bandwidth: 40 Gbps
- Table and gantry control panels
- · Front and rear integrated gantry LCD Display

# Gemstone clarity detector

- Z-Coverage/360 degree rotation: 160 mm
- Number of slices: 512
- Number of detector rows: 256
- Number of detector elements: 212,992 cells with individual electronic/DAS channels

# X-ray tube

- Generator maximum peak power: 103 kW
- Tube current range: 10-740 mA with 5 mA increments
- Tube voltage: 70, 80, 100, 120, 140 kV Automatically selected through kV Assist based on patient body habitus and examination type
- Max x-ray tube assembly heat content: 5.0 MJ (6.8 MHU)
- Max continuous heat dissipation: 3.0 kW
- Focal spot size according to IEC 60336/2005: 1.0 × 0.7 mm, 1.6 × 1.2 mm, 2.0 × 1.2 mm

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## Patient table options

- 2000 table with 500 lb (227 kg) weight limit
- 2000x table with 675 lb (306 kg) weight limit
- 1700 table with 675 lb (306 kg) weight limit

# Imaging chain

- Smart dose technologies
- Automatic Exposure Control (AEC)
- 3D dose modulation utilizing SmartmA
- Organ dose modulation
- Volume viewer
- kV assist
- 70 kV scanning
- 70 kVp scan mode enables low dose pediatric and small patient scans
- CG modulated mA
- · Color coding for kids

#### Smart dose technologies

**Smart track:** Advanced hardware and software for x-ray beam tracking minimizes patient dose.

**Smart beam:** Optimizes x-ray beam filtration independently for body, head, and cardiac applications.

**Soft shutter:** This capability reduces the over-beaming dose in helical scans by using an advanced reconstruction algorithm for helical scans that makes better use of acquired data through intelligent view weighting and back projection.

**Dose check:** Provides the user 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 Association (NEMA). Dose check provides the following:

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

**Dose computation, display and reporting:** CTDIvol (CTDI volume), DLP (Dose Length Product), and Dose Efficiency computation and display during scan prescription provide dose information to the operator. Dose Reporting saves the CTDIvol, DLP, and phantom type in a DICOM Structured Dose Report and a secondary screen capture. Series and cumulative exam values are saved. Saved values can be networked or archived.

#### **Available training**

- · Onsite clinical applications training
- 1st year Revolution CT training is mandatory with every purchase
- TiP<sup>™</sup> Virtual Assist remote training

#### Warranty

Includes one year warranty for tube and system.

# NEMA XR 29-2013 standard

This product is compliant with the NEMA XR 29-2013 standard.

# **Contact us**

GoldSeal systems are quoted subject to availability. To confirm current availability of systems or additional options in your region, contact your GE HealthCare representative. Your access to quality medical imaging is our priority. Get the most for your budget by choosing GoldSeal today. If it meets our standards, we know it will meet yours.

Learn more at www.gehealthcare.com/goldseal

# **Good Refurbishment Practice**

The GE HealthCare GoldSeal process is consistent with Good Refurbishment Practices (GRP) for medical imaging equipment established by the International Electrotechnical Commission (IEC). The IEC / PAS 63077:2016(E) describes and defines the process of refurbishment of used medical imaging equipment and applies to the restoring of used medical imaging equipment to a condition of safety and effectiveness comparable to that of new equipment.

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