



# Revolution EVO Upgrade

# Revolution EVO Console Upgrade

For your need for speed



## Improved Image reconstruction speed with 50 fps

- 40% faster compared to Z820 (previous console)

## Faster workflow for every kind of exam

- Thanks to faster image recon speed, less time waiting for the whole exam completion, even for more complex procedures
- Faster exam, better comfort for patient

## Increased throughput



## Z8g4

- 1142 mm scan range
- 1827 images @ .625 mm



**52 sec**  
recon time with Z820

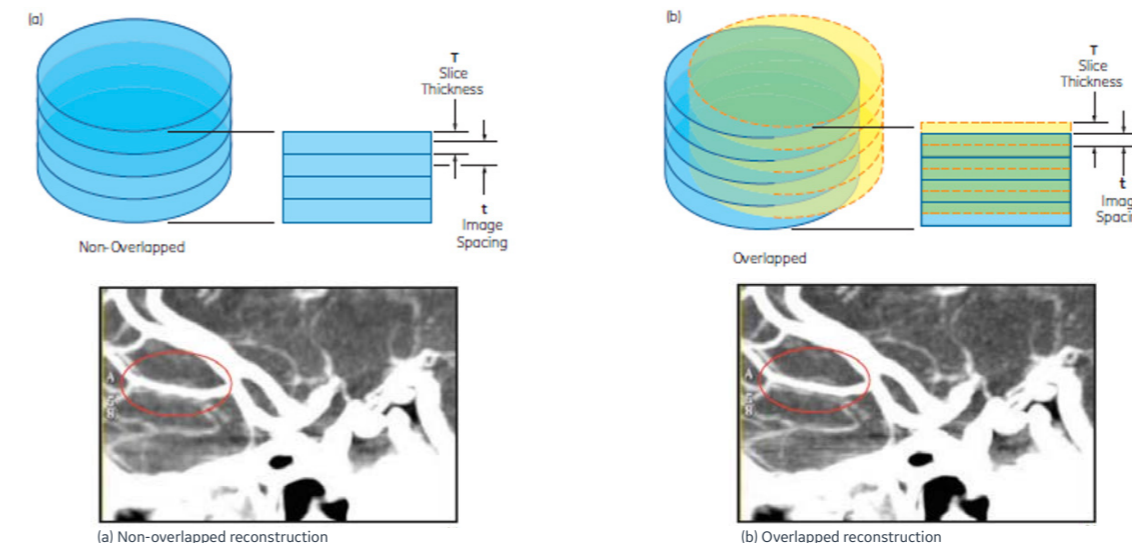


**36.5 sec**  
recon time with Z8g4

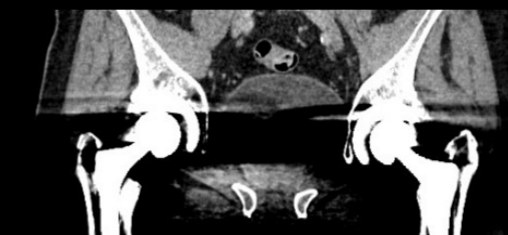


# Revolution EVO Elite

Faster, Better, More



## Without Smart MAR



## With Smart MAR



## Improved Image reconstruction speed with 50 fps

- 40% faster compared to Z820 (previous console)

## 128 slices<sup>1</sup> for 40 mm detector coverage

- 0.625 mm X 64 channels and overlapped reconstruction allow faster anatomical coverage with increased resolution
- Improved performance in all clinical areas and advanced applications

## 0.35 sec rotation speed

- For faster acquisition with every clinical applications
- Improved temporal resolution on cardiac CT, faster scan and better image quality on pediatric and emergency with less motion artifacts

## ASiR-V (Adaptive Statistical Iterative Reconstruction)

- Up to 135%<sup>2</sup> improvement in LCD at the same dose
- A dose reduction up to 82%<sup>2,3</sup> compared to standard FBP at the same image quality
- Up to 107%<sup>2</sup> spatial resolution improvement at same image noise

## Smart MAR (Metal Artifact Reduction)

- Helps reduce beam hardening and streak artifacts caused by metal in the body

# Thoracic-abdominal aorta

## Revolution EVO

### Scan Type

- Helical Gated Helical

### Speed & Coverage

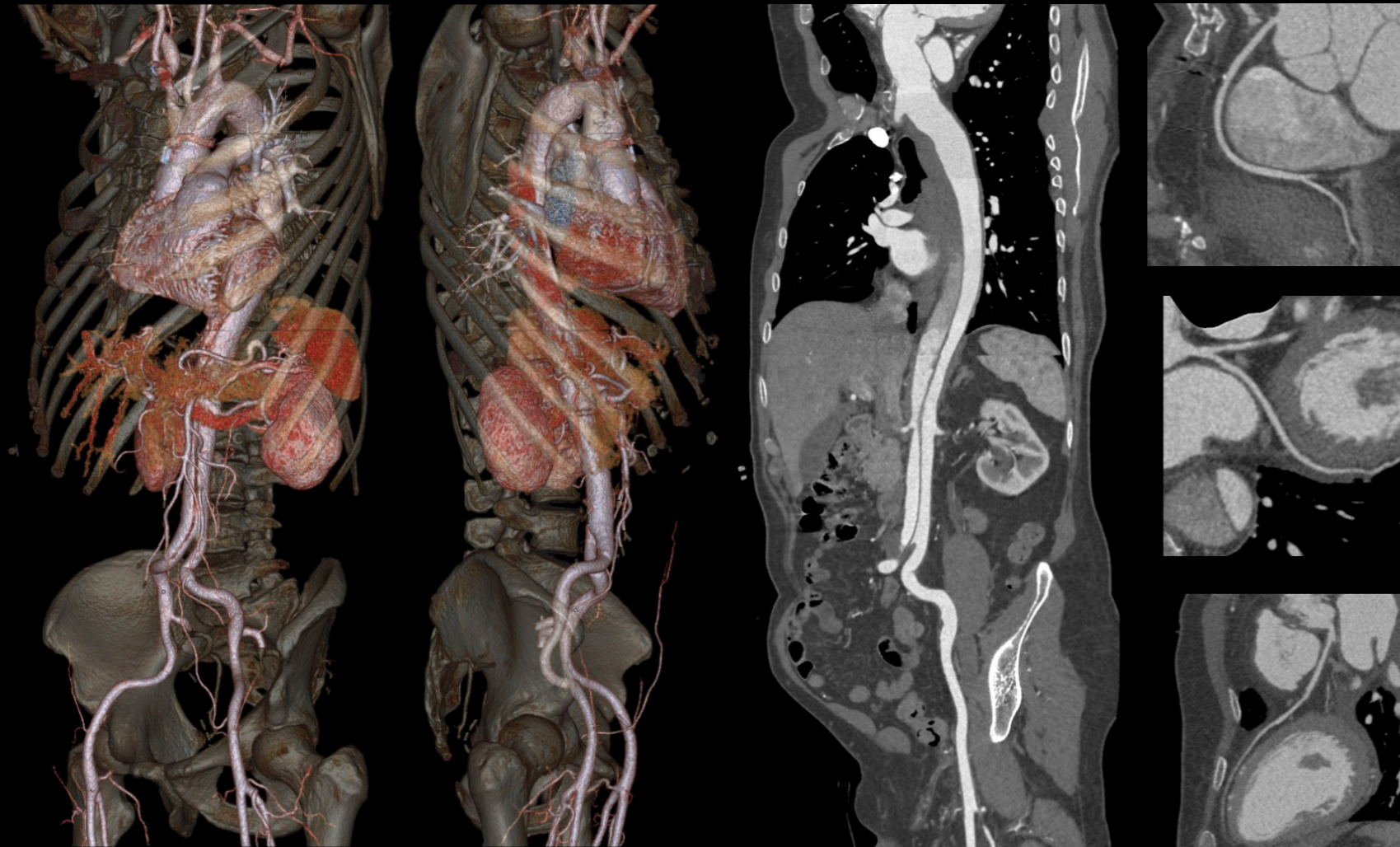
- Cardiac Segment 40-80
- Pitch 1.531
- 0.35 sec/rot

### Image Quality

- Slice thickness 0.625 mm
- Noise index 36

### Dose

- DLP, mGy.cm 759
- CTDIvol, mGy 5.5
- 100 kV
- Kernel, Standard
- ASiR-V% 60
- CM, ml 90
- Saline 4 ml/sec 50 ml
- Total scan time, 18 sec



# Revolution EVO Gen 3

## Ready for the future

### Improved Image reconstruction speed with 50 fps

- 40% faster compared to Z820 (previous console)

### 128 slices<sup>1</sup> for 40 mm detector coverage

- 0.625 mm X 64 channels and overlapped reconstruction allow faster anatomical coverage with increased resolution
- Improved performance in all clinical areas and advanced applications

### 0.35 sec rotation speed

- For faster acquisition with every clinical applications
- Improved temporal resolution on cardiac CT, faster scan and better image quality on pediatric and emergency with less motion artifacts

### Latest clinical innovations with Smart Subscription

- Improve image quality, reduce dose and minimize localized artifacts with TrueFidelity, ASiR-V and Smart MAR through Smart Subscription base package
- Access to a broad range of application packages and keep pace with innovations

### Smart Subscription offering

- Subscription-based service for CT that helps you keep your computing platform and software up to date.
- Keep pace with clinical and workflow innovations by providing the latest upgrades and updates to your CT capabilities<sup>4</sup> as soon as they're available.
- Pick the plan that's right for you. Smart Subscription includes a broad range of application packages across many different imaging services, giving you the flexibility to choose how you want to expand your CT capabilities.

### Base

**CT Console & OS Non-obsolescence** **Recon & IQ**

- TrueFidelity
- ASiR-V
- Smart MAR

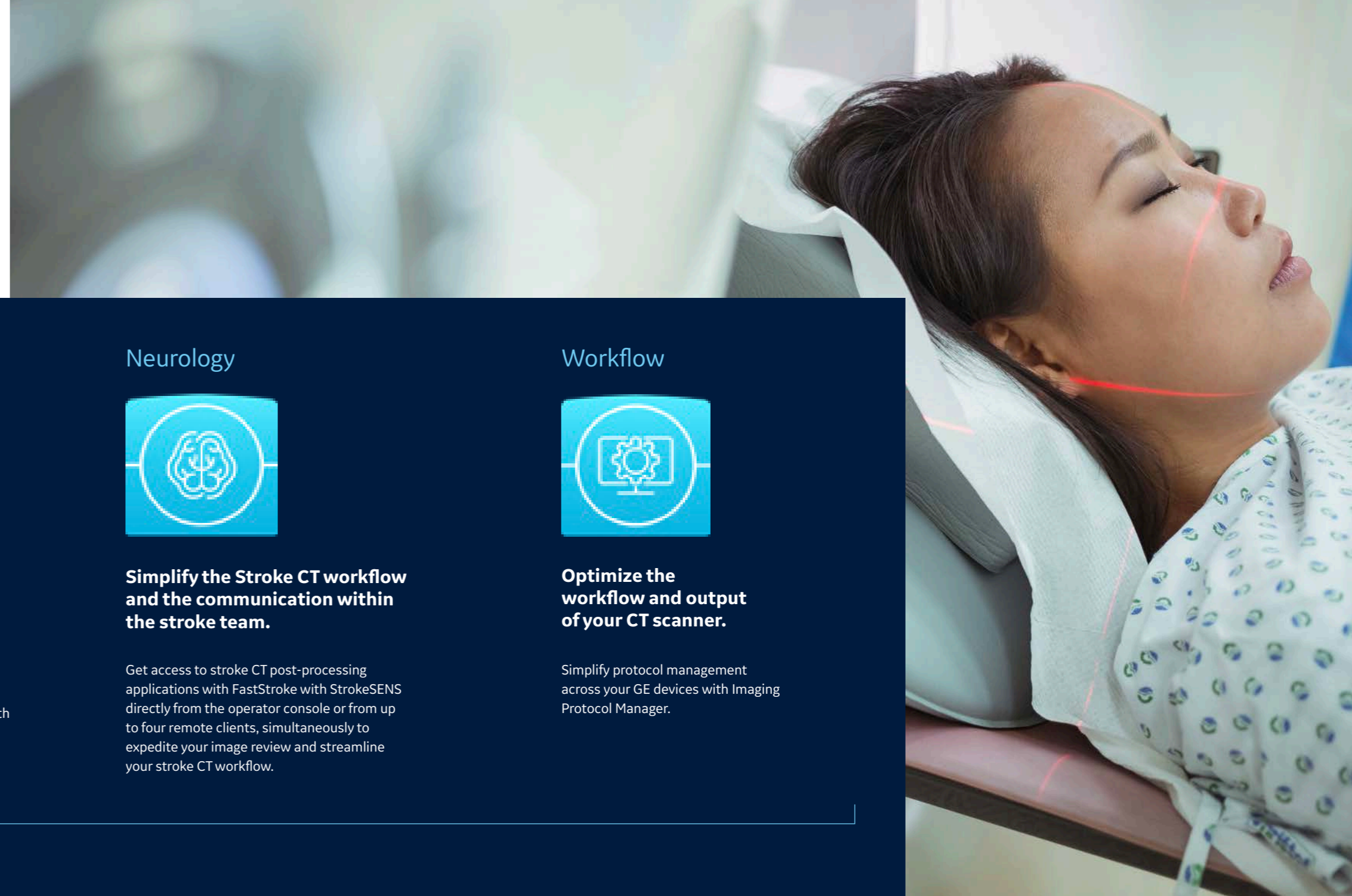
### Additional package

General Imaging	Cardiology	Neurology	Workflow
<ul style="list-style-type: none"> <li>• Bone VCAR</li> <li>• VessellIQ Xpress with AutoBone Xpress</li> </ul>	<ul style="list-style-type: none"> <li>• SnapShot Freeze 2</li> <li>• CardIQ Xpress 2.0</li> <li>• SmartScore 4.0</li> </ul>	<ul style="list-style-type: none"> <li>• FastStroke with StrokeSENS<sup>5</sup></li> <li>• CT Perfusion 4D Neuro</li> <li>• Dynamic Shuttle</li> </ul>	<ul style="list-style-type: none"> <li>• Imaging Protocol Manager</li> </ul>



# Smart Subscription Packages

Automate your CT workflow from protocoling to image processing and deliver the latest innovations to improve image quality, reduce dose and minimize localized artifacts



## Base



**Delivering the latest CT system software and Recon and IQ innovations.**

Get access to latest innovations to improve image quality, reduce dose, and minimize localized artifacts such as ASiR-V and Smart MAR and TrueFidelity, the future of image quality with Deep Learning Image Reconstruction for outstanding detail, texture and dose without compromise.

## General



**Streamline the processing and reading of routine CT exams.**

Get access to CT vascular and spine imaging applications with Bone VCAR and VesselIQ Xpress with AutoBone Xpress, directly from the operator console or from another remote client, to speed up your diagnostic workflow.

## Cardiology



**Automate Cardiac CT post processing and streamline your workflow.**

Improve cardiac exams with automated whole heart motion correction thanks to SnapShot Freeze 2. Get access to cardiac post-processing applications, with CardIQ Xpress 2.0 & SmartScore 4.0, directly from the operator console or from a remote client, to automate your image processing and facilitate your reading.

## Neurology



**Simplify the Stroke CT workflow and the communication within the stroke team.**

Get access to stroke CT post-processing applications with FastStroke with StrokeSENS directly from the operator console or from up to four remote clients, simultaneously to expedite your image review and streamline your stroke CT workflow.

## Workflow



**Optimize the workflow and output of your CT scanner.**

Simplify protocol management across your GE devices with Imaging Protocol Manager.



Including future updates & upgrades

# Remote Control Suite\*

Minimizes potential contamination risk between gantry and console rooms

- Ability to remotely start and end exam from the console room without going into the gantry room
- Minimize the risk of contamination by avoiding unnecessary trips to the gantry room
- Functionalities built in to the console room in order to execute a CT scan

Designed to remotely position patients from the scan control room, allowing the technologist to remain isolated from the patient

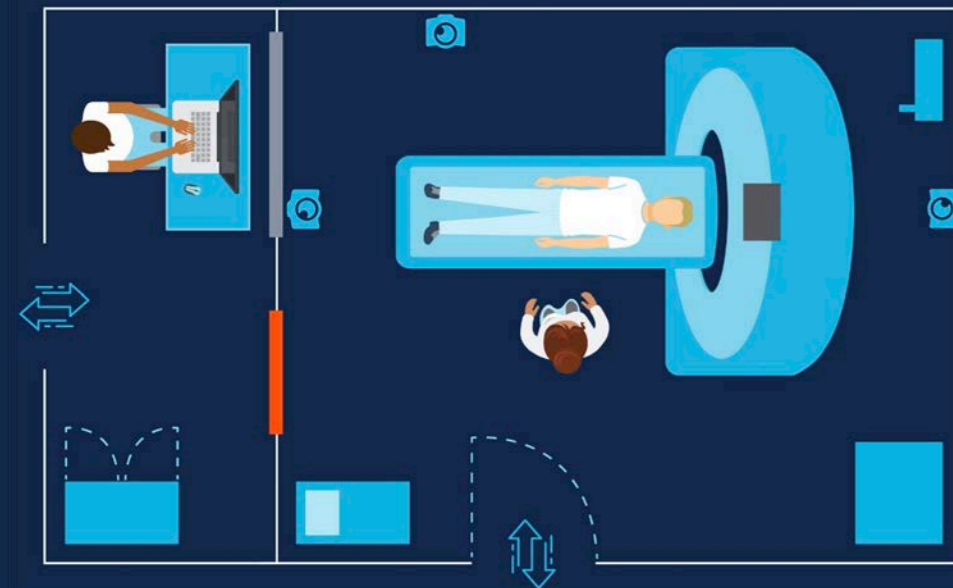
## Hardware Remote Control Panel to support:

- Load, Unload
- Landmark Internal/External
- Laser Alignment Lights
- Table Motion (in, out, up, down) at both speeds
- Tilt (if applicable)



## Three Video Monitoring System\*\* to real time monitor the patient:

- Three camera setup to view the patient from front, rear and side angles
- High definition performance to clearly view gantry laser lines
- Desktop monitor with a simple interface to easily switch views and a privacy button to black the screen



# Revolution EVO Gen 3

Customized benefits for every user or persona

## Radiologist



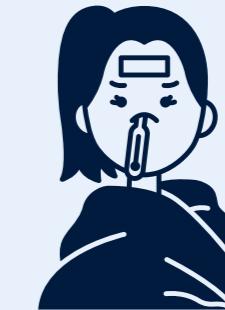
- Image quality improvement thanks to overlapped recon, ASiR-V algorithm and Smart MAR
- Lower image noise at same dose with ASiR-V or up to 82%<sup>2,3</sup> dose saving for patient at same image quality
- More access to advanced applications like stroke imaging and cardiac with 40 mm/128 slices<sup>1</sup> and 0.35 sec rotation
- Improved workflow with faster image reconstruction speed and faster acquisition time
- Always working with latest clinical solutions from Smart Subscription

## Technologist



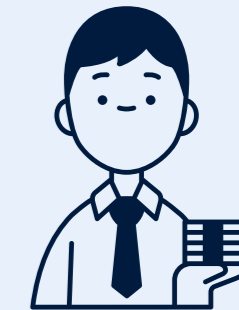
- Faster workflow operations with improved image recon speed
- Access to advanced applications with improved clinical capabilities
- Easier CT experience and patient management with faster workflow

## Patient



- Better CT experience and comfort with faster scan and reduced time in the CT room
- Less dose with ASiR-V image recon algorithm<sup>2</sup>
- Access to advanced technological capabilities that may improve diagnosis and treatment

## Administrator



- Smart investment for the future with Smart Subscription capability
- Better efficiency for CT department with improved scan and image recon speed
- Wider range of CT diagnostic proposals with potentially increased income
- Potentially increased throughput due to faster scan and image reconstruction

\*Optional  
\*\*It can be sold as a separate option



Building a world that works

GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE (NYSE: GE) works on things that matter – great people and technologies taking on tough challenges.

From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

1. 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.
2. In clinical practice, the use of ASiR and 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.
3. Image quality as defined by low contrast detectability.
4. Software available to customer is dependent on the software package purchased by customer.
5. StrokeSENS™ is legally manufactured by Circle Neurovascular Imaging, Inc. Not available for sale in all countries.

© 2022 General Electric Company – All rights reserved.

GE Healthcare reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation. Contact your GE Healthcare representative for the most current information. GE, the GE Monogram, ASiR, ASiR-V, VessellIQ and AutoBone are trademarks of General Electric Company. GE Healthcare, a division of General Electric Company. GE Medical Systems, Inc., doing business as GE Healthcare.

JB19543XX