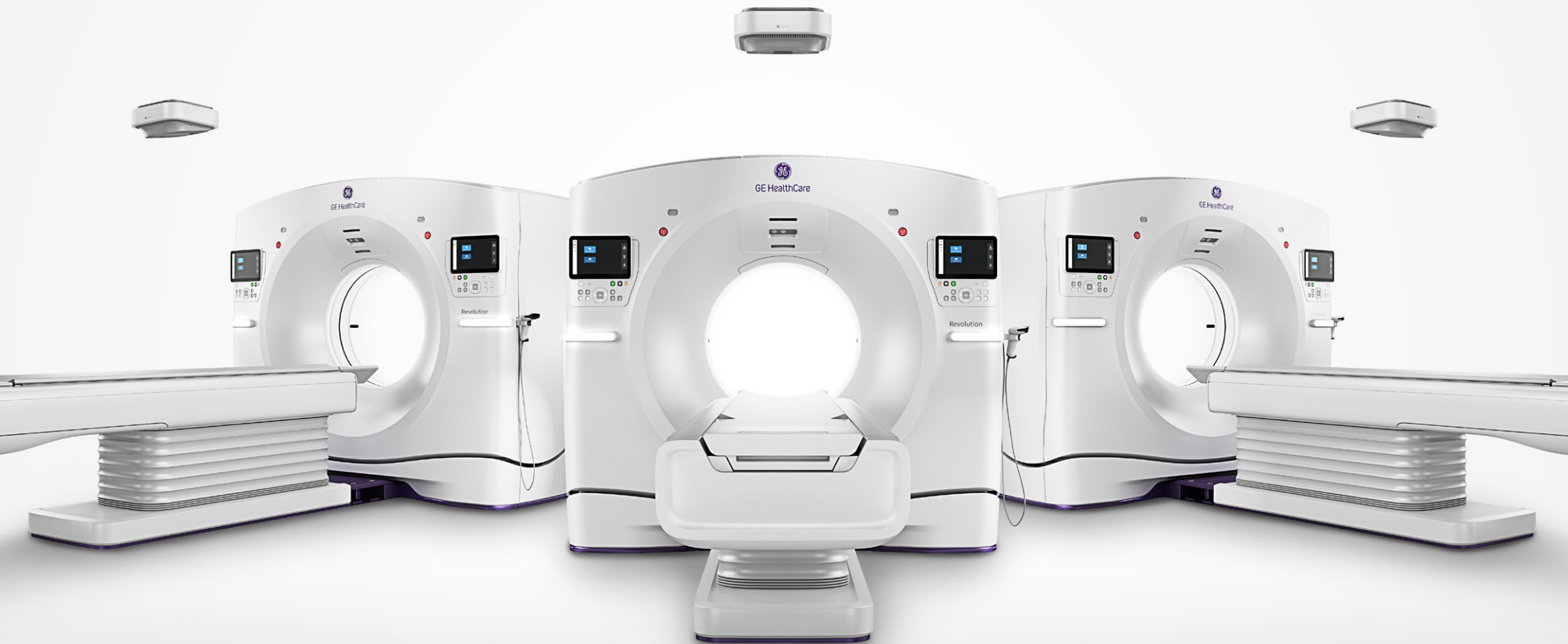




Revolution Ascend Platform

A new revolution in CT efficiency



GE HealthCare

"This is neither an offer nor an agreement to supply the technologies. Cannot be placed on the market or put into service until it has been made to comply with the Medical Device Regulation requirements for CE marking."

It's time to get ahead in CT. Way ahead.

As the demand for CT procedures continues to increase, this means you need to image a larger number of patients in a shorter amount of time. You also need CT technology that can keep up. Not just for the routine patients you have today, but also for the challenging patients you'll have tomorrow. The need for efficiency to stay ahead has never been greater.

"Our challenges are the same as everyone else's. With lower reimbursement, we need three patients now for every one patient we had 10 years ago. The need for high volumes drives the need for efficiency.¹"

Academic Hospital, UK



91%

of hospitals are looking to improve capabilities that reduce patient radiation dose



89% of hospitals said improving their CT department workflow is a top priority



82% of hospitals feel challenged by the increase in CT procedures in the last two years

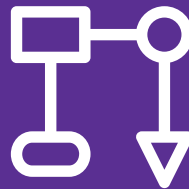
A new revolution in CT efficiency is here

Introducing the new Revolution™ Ascend Platform, our latest CT offering that is designed for efficiency to match your imaging demands. Whether you require a highly efficient system with 20 mm of coverage for routine scanning or a more advanced system with 40 mm of coverage that improves low contrast detectability, you can choose exactly what you need. Since the Revolution Ascend Platform is scalable, you can invest in the CT you need today and take comfort in knowing that it's ready for tomorrow.



Deep learning-enabled

Deep learning image reconstruction helps improve image quality and contrast detectability while maintaining the same dose.



Workflow-optimized

Effortless Workflow helps provide maximum CT scanning efficiency, accuracy, clarity and consistency.



Designed for scalability

A scalable design brings a reliable platform to everyone without compromising scan quality or patient experience.



“This new technology allows significant gains in image quality and significantly reduces patient dose. And as a result, this scanner enables a more reliable diagnosis.¹”

Alban Genu, M.D., Chief of Radiology, Center Hospitalier

Revolution Ascend Platform at a glance

Select	20 mm coverage	32/64 slices	Upgradeable to Plus
Plus	40 mm coverage	64/128 slices	Upgradeable to Elite
Elite	40 mm coverage	128 slices	Comes standard with deep learning technologies

Designed to enhance what matters

True Enhance DL

True Enhance DL is a deep learning-based processing method intended for contrast enhancement of single energy images.

True Enhance DL uses a dedicated Deep Neural Network (DNN) trained to estimate monochromatic, 50 keV GSI images from single-energy X-ray.

This technology brings four deep learning models that the user can choose depending on different contrast enhancement phases by clinical tasks.

Arterial Phase



Portal Phase



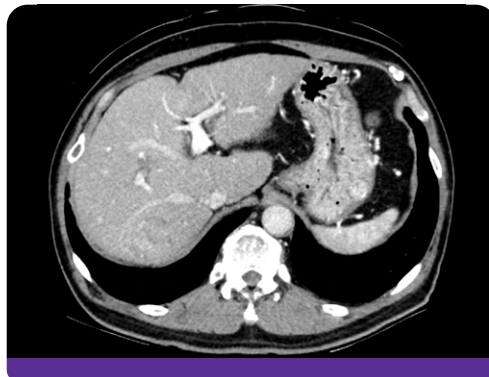
Venous Phase



120 kVp

WW 400

WL 40



True Enhance DL

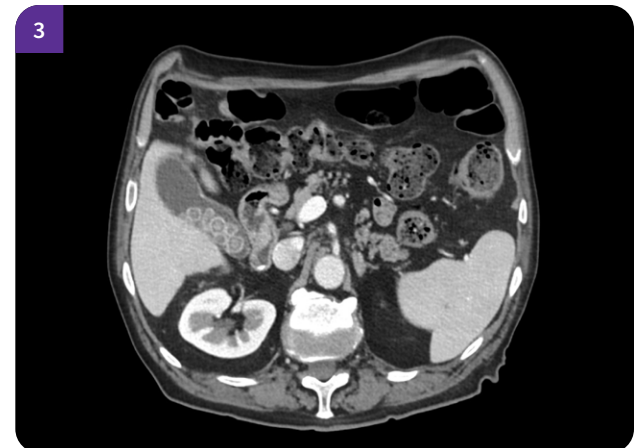
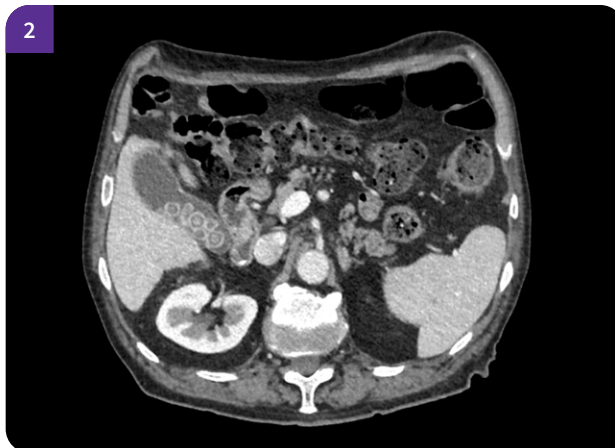


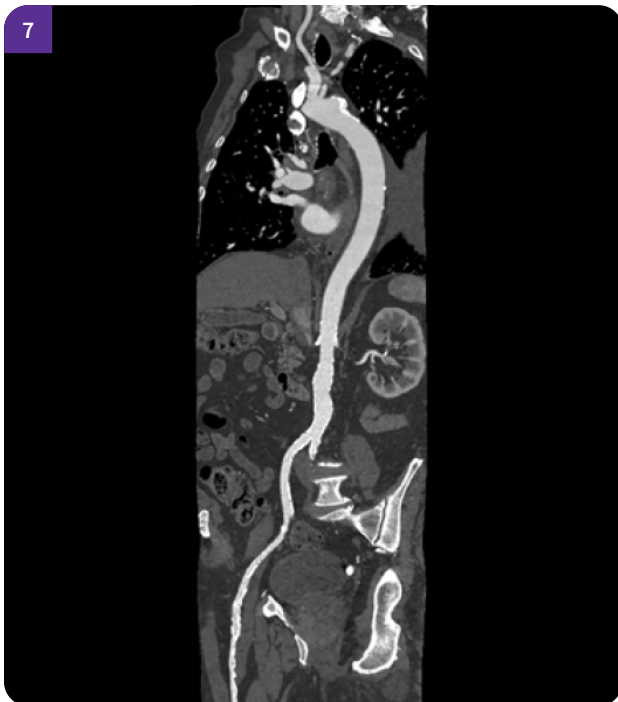
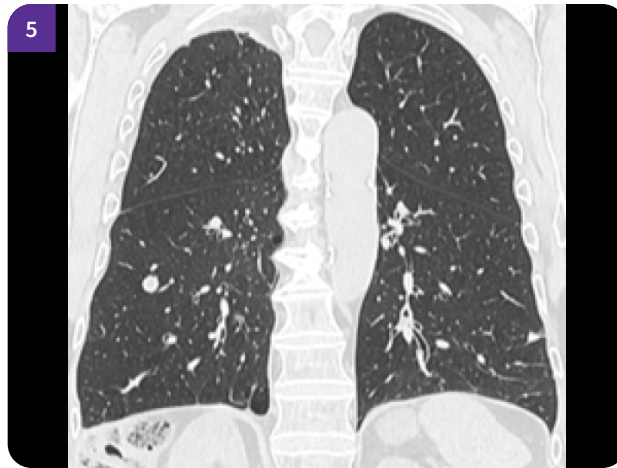
Deep learning for a deeper understanding

TrueFidelity™ DL

TrueFidelity DL is our state-of-the-art image reconstruction technology that uses a DNN to generate high-definition, low-noise CT images. It produces images with exceptional sharpness, low-contrast image quality performance and your preferred noise texture, at the same dose.²

1. Filtered Back Projection (FBP)
2. ASiR-V 60%
3. TrueFidelity DL





“We have seen the improvement in iterative reconstruction, but deep learning reconstruction takes it to a new level in terms of bringing the radiation dose down, while also improving image quality.¹”

Ricardo Cury, M.D., Chairman of Radiology, Baptist Health

- 4. Curved view of the carotid artery
- 5. Lung parenchyma coronal view
- 6. Sagittal abdominal reformat
- 7. Curved view of aorta
- 8. 3D Volume Illumination of the heart
- 9. 3D Volume Illumination of the abdomen

Better together

With Revolution Ascend Platform, you can combine both of our AI-based imaging reconstruction technologies to create one stunning image. By combining True Enhance DL (TE DL) with TrueFidelity DL (TF DL), you can achieve images that have less noise, enhanced sharpness and better noise texture than images obtained with ASiR-V.

Out of 15 radiologists,

100%

scored TE DL + TF DL with having better noise reduction, sharpness and noise texture compared to TE DL + ASiR-V.

TrueFidelity DL + True Enhance DL

15 radiologists reviewed 106 cases comparing TE DL + ASiR-V and TE DL + TF DL. They scored TE DL + TF DL with having better noise reduction in 90.6% of cases, better sharpness in 95.2% and better noise texture in 95.2%.

Noise reduction

TE DL + TF DL scored better noise reduction in

90.6%
of cases



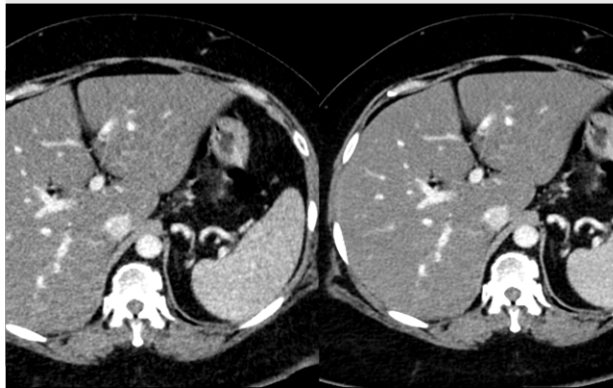
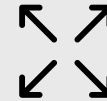
TE DL + ASiR-V

TE DL + TF DL

Sharpness

TE DL + TF DL scored better image sharpness in

95.2%
of cases



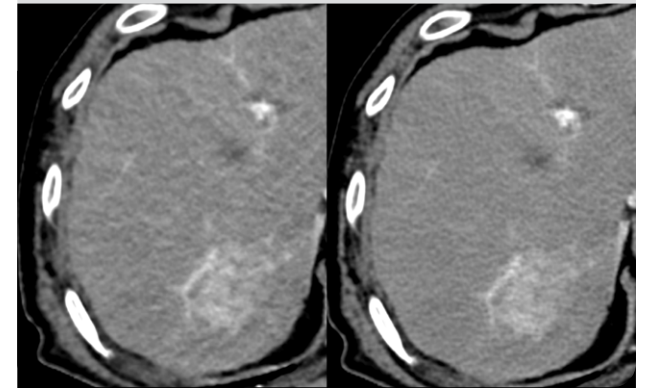
TE DL + ASiR-V

TE DL + TF DL

Noise texture

TE DL + TF DL scored better noise texture in

95.2%
of cases



TE DL + ASiR-V

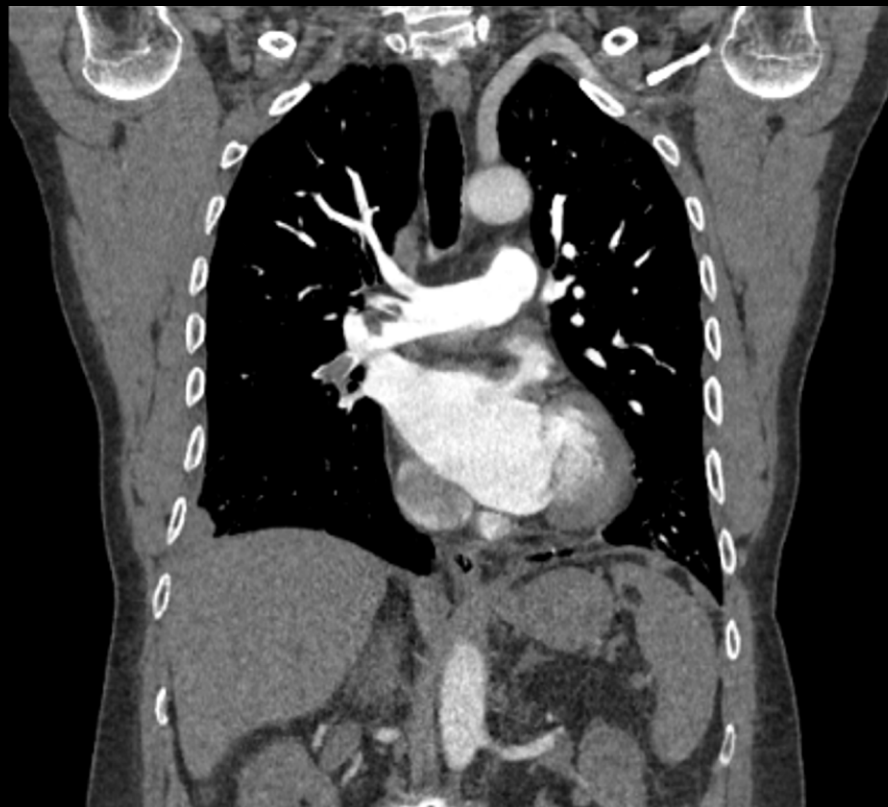
TE DL + TF DL



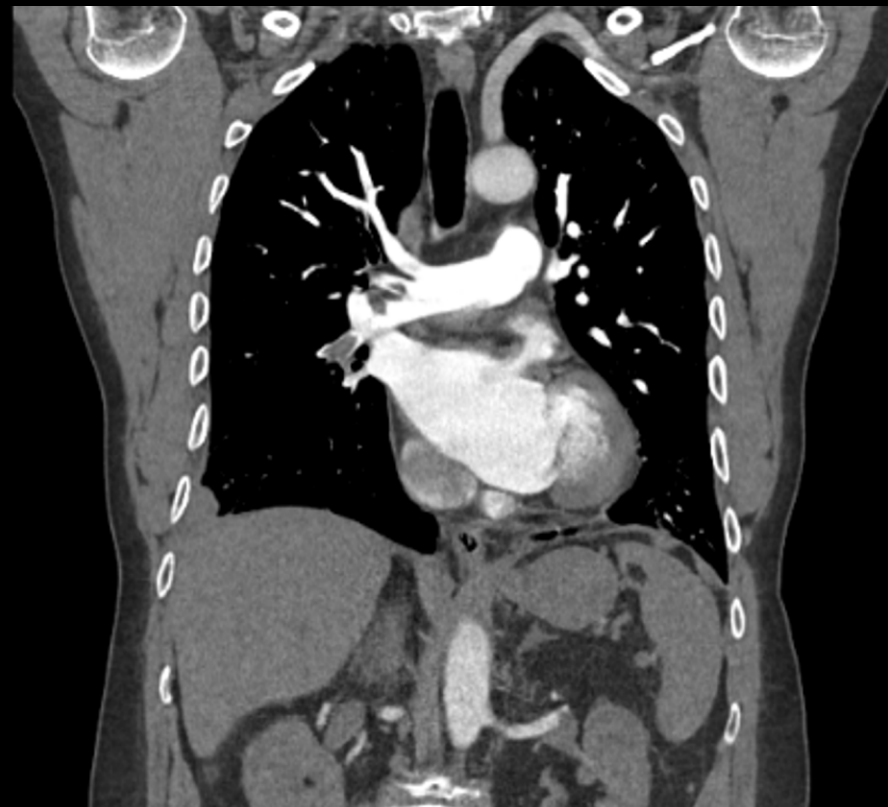
Noise reduction

*“On True Enhance DL images with TrueFidelity DL, there is a significant improvement in image noise and texture.”**

Dr. Nasir Siddiqui, Chairman of Radiology, Duly Health and Care, U.S.



TE DL + ASiR-V



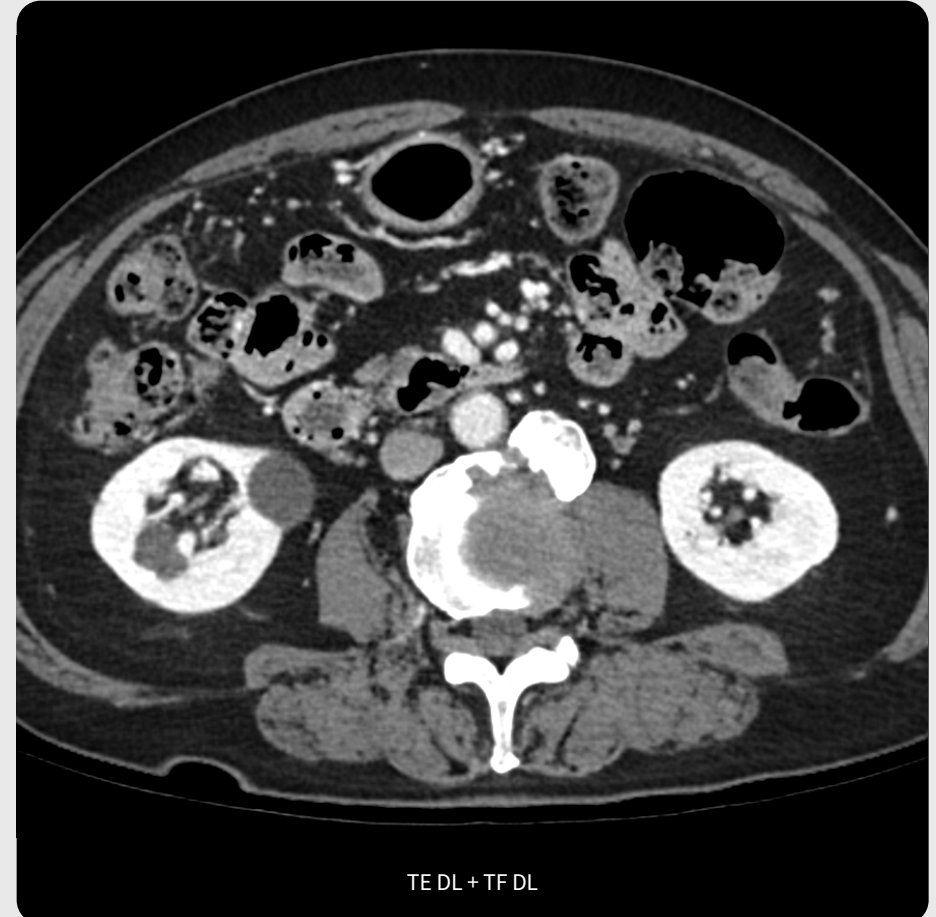
TE DL + TF DL



Sharpness

*“True Enhance DL with TrueFidelity DL provides sharper images with excellent texture, offering sharp delineation in our scans so that the tumor boundary in the liver parenchyma is clearly visible, making diagnosis easier.”**

Dr. James Waugh, Radiologist, West Suffolk, U.K.

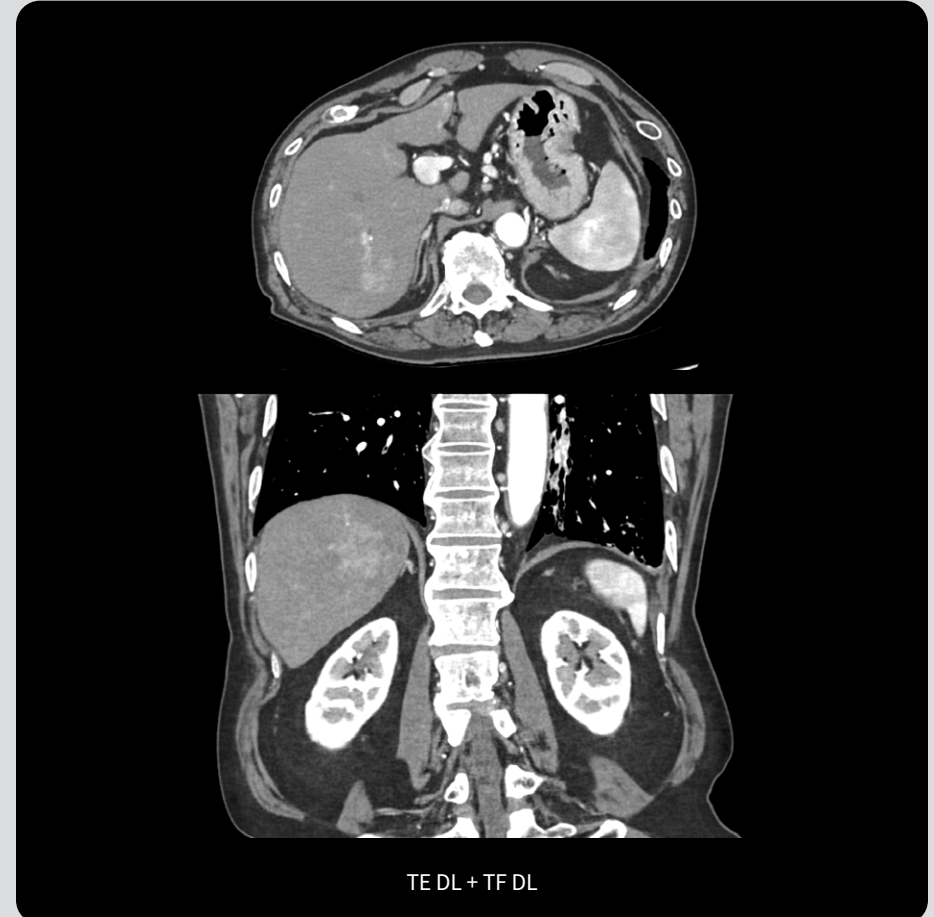




Noise texture

*“Implementing True Enhance DL combined with TrueFidelity DL has transformed our imaging process. The standout improvement has been the remarkable noise texture uniformity, especially in challenging areas like the liver parenchyma. This uniformity ensures that subtle differences in tissue densities are more accurately captured, reducing misinterpretation of diseased versus healthy tissue”**

Dr. Naoki Ito, Chief Radiologist, Toda Central Hospital, Japan

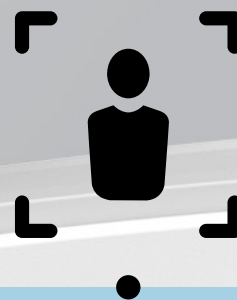


Simplified scanning from start to finish

Effortless Workflow

Available on all Revolution Ascend Platform configurations, Effortless Workflow intelligently automates your CT workflow from pre-scan protocoling to post-scan processing. It uses AI-based features to help transform the entire CT experience and provides maximum efficiency, accuracy, clarity and consistency.

This enables technologists to automatically and accurately personalize scans for each patient with significantly less effort. The end result is a beautiful CT image acquired in less time.



Pre-scan

Patient setup is a breeze with AI-based protocol suggestions based on each site's individual behavior along with automatic patient positioning. This helps reduce errors and ensures the best possible scanning position for the patient.



Intelligent Protocoling



Auto Positioning



56%

reduction in positioning time³

"You have this piece of equipment with all this technology in it. Yet it pretty much runs itself.¹"

Gladys Farias, Manager Imaging Services, Baptist Health



Scan

Automatic scan ranges along with auto-adjustment of the scan settings can help balance dose and image quality in addition to reducing scan time.



Clarity UI



Smart Plan



Auto Prescription



Auto ROI



Effortless Recon DL

TrueFidelity DL

True Enhance DL

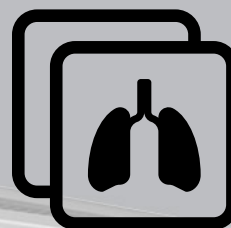


Home Positioning &
Remote Control Suite



66%

reduction in total exam clicks⁴



Post-scan

Post-processing tasks are streamlined through Prospective Multiple Reconstruction, automated reformatted view generation, along with a suite of intelligent and AI-based applications. All designed to automate your image post-processing and facilitate results sharing.



Automated post-processing tools



Direct MPR



Spine Auto Views⁶



Head Auto Views⁷



FastStroke with StrokeSENS⁸



SnapShot Freeze 2



21%

reduction in total exam time⁵

You'll be ready for what's next



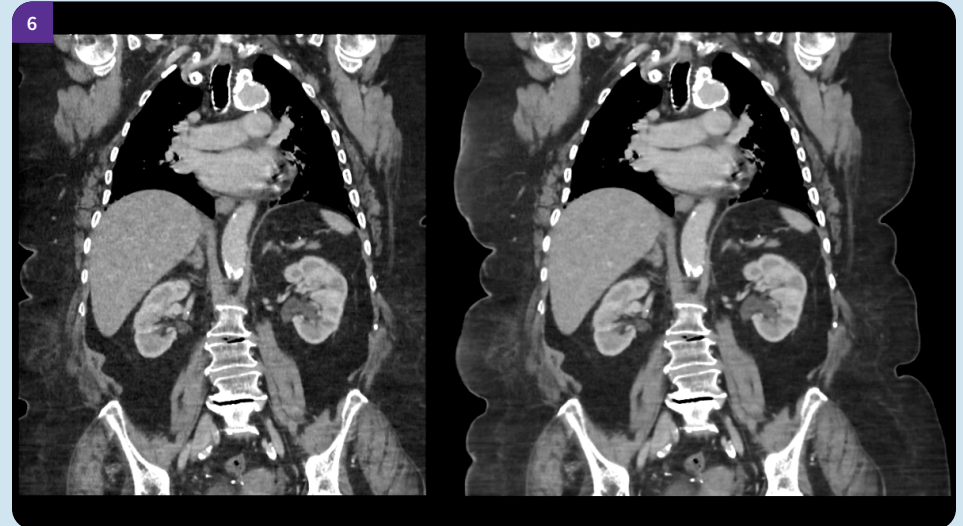
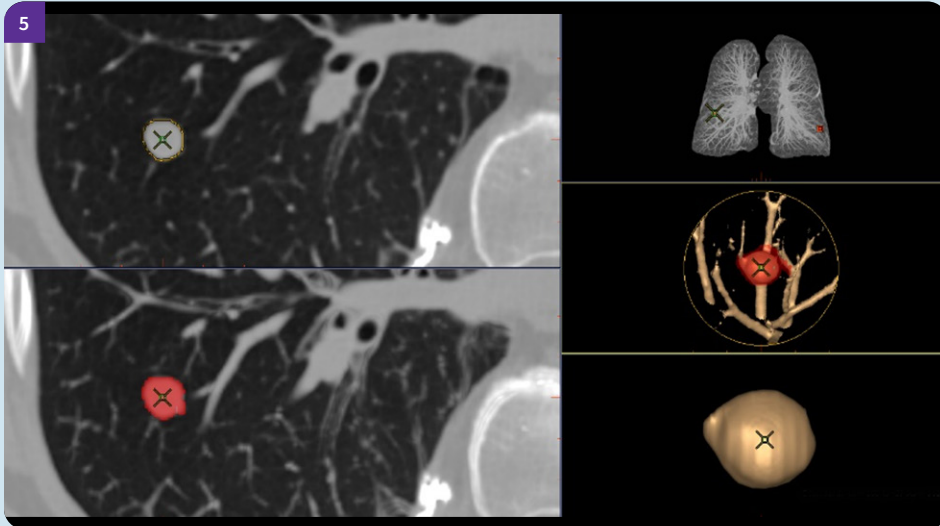
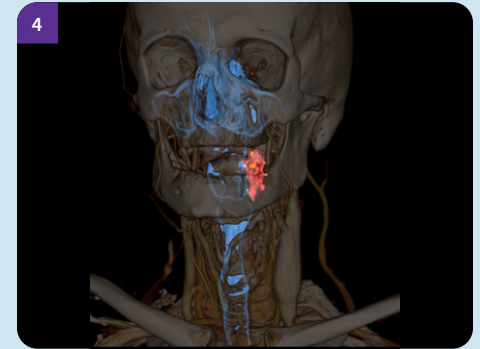
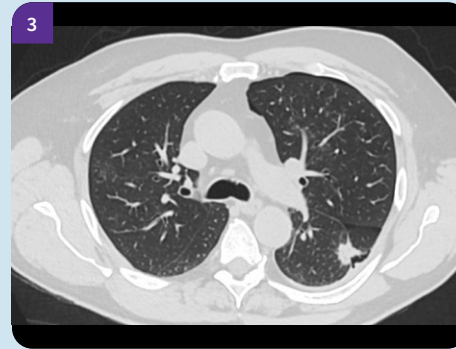
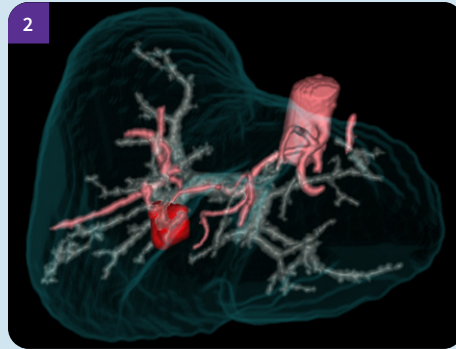
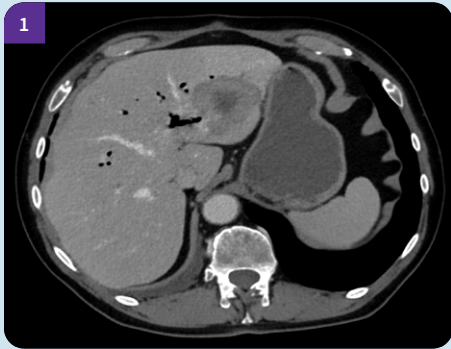
The Revolution Ascend Platform’s scalable and upgradeable design lets you invest in the clinical capabilities you need today, while enabling your CT to grow with you in the future. The Revolution Ascend Select can be upgraded to Plus or Elite. And Plus can be upgraded to Elite. All of the configurations are paired with Effortless Workflow and Smart Subscription for the most efficient CT experience.

Smart Subscription is our industry’s first subscription-based service for CT. This helps you keep your computing platform, clinical software applications and workflow innovations up to date across your entire fleet. As new applications are developed, they are automatically deployed to your Revolution Ascend Platform system. So you can take comfort in knowing your investment will always be ready for what’s next.

	Revolution Ascend Select	Revolution Ascend Plus	Revolution Ascend Elite
	High performance for routine and basic coronary analysis	Best-in-class with a faster workflow from referral to report	State-of-the-art detectability and diagnosis
Scalability	Upgrades to Plus	Upgrades to Elite	Includes all deep learning technologies
Detector coverage	20 mm with 32 slices (64 slices optional)	40 mm with 64 slices (128 slices optional)	40 mm with 128 slices
Generator power	55 kW or 72 kW	55 kW or 72 kW	72 kW
TrueFidelity DL	Optional	Optional	●
True Enhance DL	–	–	●

Insightful images

Oncology

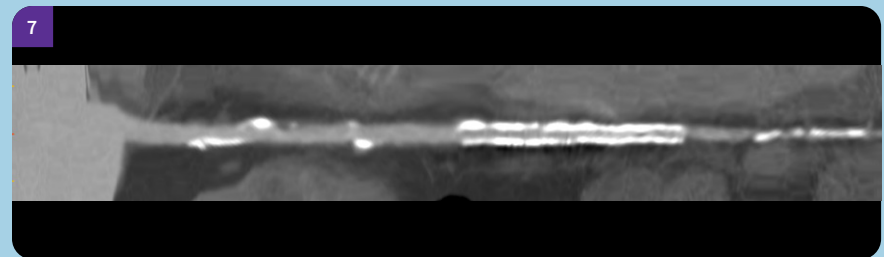
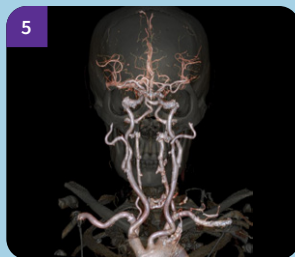
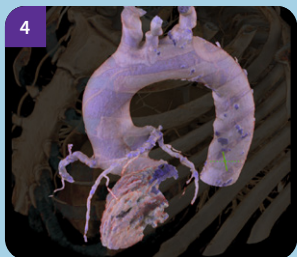
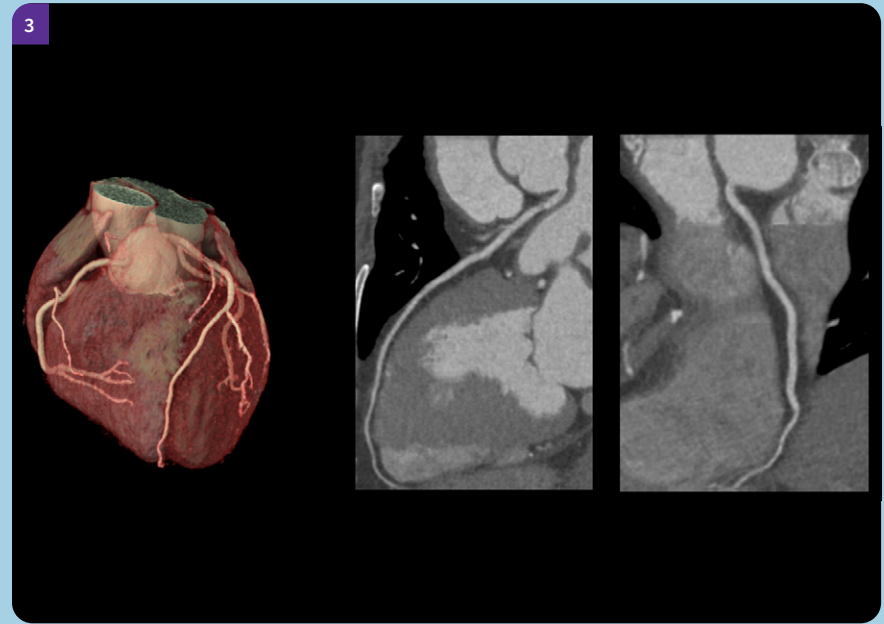


1. Liver tumor, TrueFidelity DL
2. HCC 100 kV volume illumination
3. Post-op biopsy lung

4. Tongue cancer, 1024 matrix
5. Lung nodules, TrueFidelity DL
6. With and without maxFOV

For challenging patients

Cardiovascular

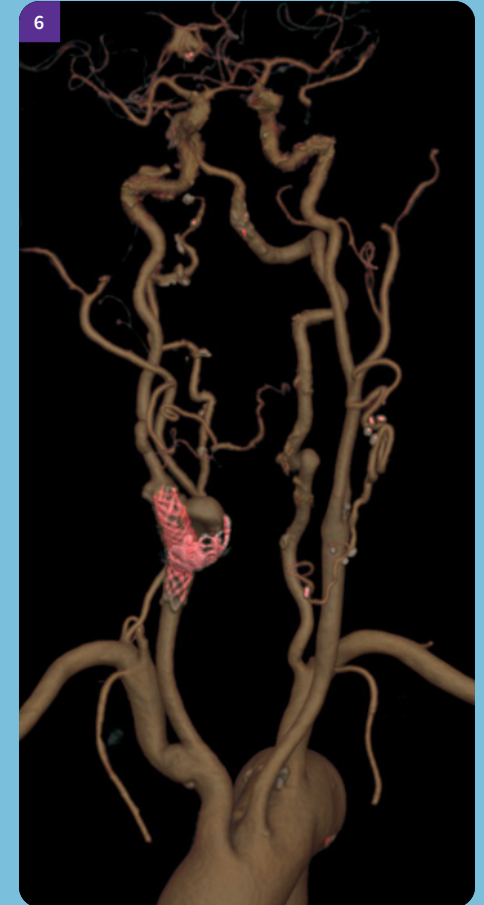
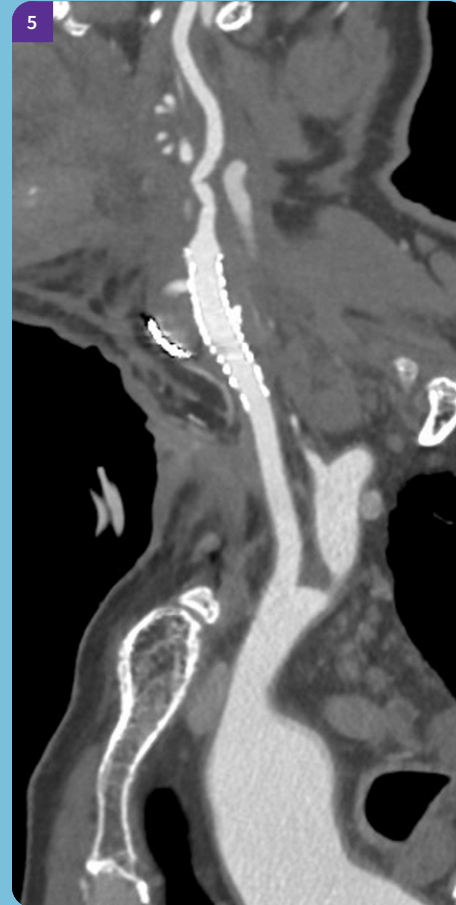
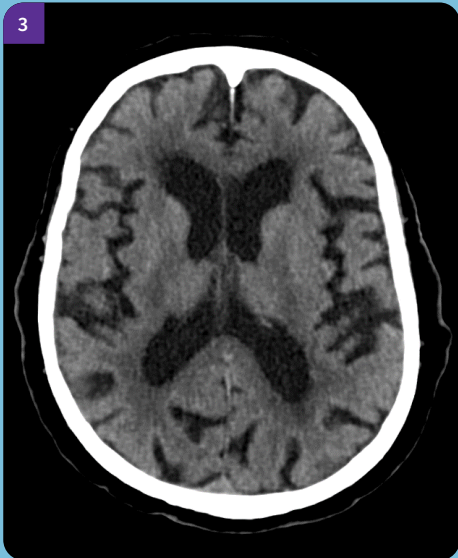
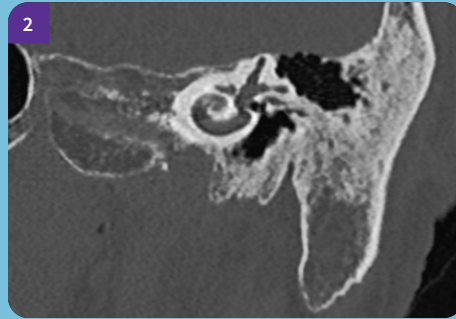
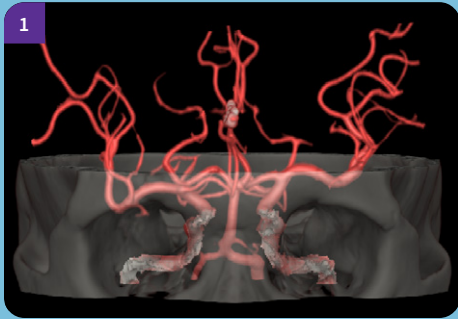


1. Low dose TAVI acquisition using 80 kVp
2. Aortic dissection with TrueFidelity DL
3. CCTA

4. Thoracic aorta
5. CTA carotids
6. CCTA with mixed plaque, AW plaque analysis
7. CCTA intrastent lumen view

Quick and clear

Neuro



1. Circle of Willis for clipping using MAR
2. High-resolution inner ear
3. Non-contrast brain
4. Cervical spine using MAR

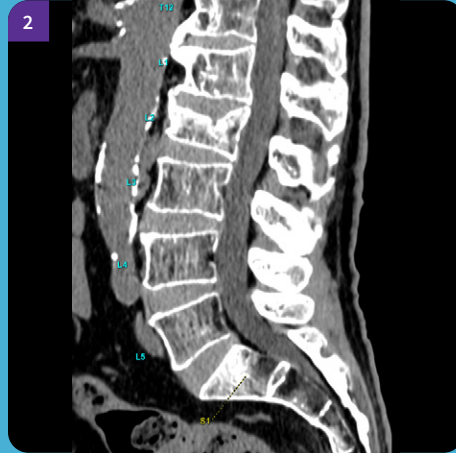
5. CTA Carotids with stent applying MAR
6. Volume illumination of carotids with stent

For every patient

General imaging



1. CTA run-off



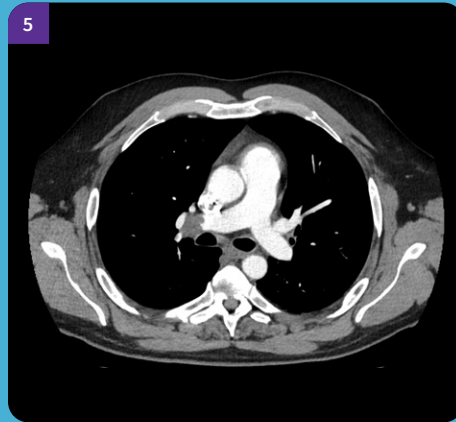
2. Lumbar spine



3. High-resolution lung

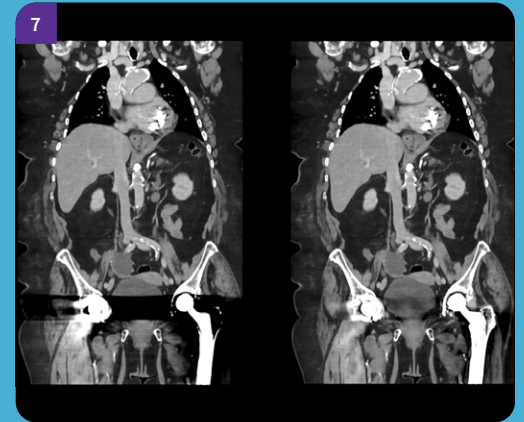


4. Morbid obese patient, BMI 52



5. Pulmonary embolism

6. High-resolution ankle



7. With and without MAR



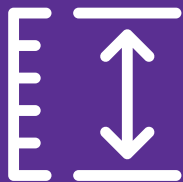
There's great CT care ahead

The Revolution Ascend Platform is ready for your CT department's clinical needs and efficiency demands. By offering advanced clinical capabilities, exceptionally efficient workflow as well as the latest in scalable imaging technology, you will have a CT that can keep you ahead of today's patients and tomorrow's challenges.



**AI-based
Auto Positioning**

Up to
40 mm
coverage



75 cm
gantry



**True Enhance
DL**

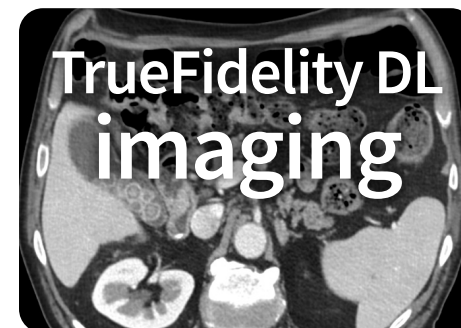
**Scalable
design**



**Interventional
CT-ready**



**TrueFidelity DL
imaging**



Revolution Ascend Platform

A new revolution in CT efficiency



Up to
.35 sec
rotation speed

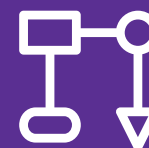


.28 mm
spatial
resolution



up to
82%⁹
reduction
in required
dose

**Effortless
Workflow**



About GE HealthCare

GE HealthCare is a leading global medical technology, pharmaceutical diagnostics, and digital solutions innovator, dedicated to providing integrated solutions, services, and data analytics to make hospitals more efficient, clinicians more effective, therapies more precise, and patients healthier and happier. Serving patients and providers for more than 100 years, GE HealthCare is advancing personalized, connected, and compassionate care, while simplifying the patient's journey across the care pathway. Together our Imaging, Ultrasound, Patient Care Solutions, and Pharmaceutical Diagnostics businesses help improve patient care from diagnosis, to therapy, to monitoring. We are a \$19.6 billion business with 51,000 colleagues working to create a world where healthcare has no limits.

Follow us on LinkedIn, X (formerly Twitter), and Insights for the latest news, or visit our website www.gehealthcare.com for more information.

¹ Not a consultant for GE HealthCare. The statements by GE HealthCare's customers described here are based on their own opinions and on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist, i.e. hospital size, case mix, etc., there can be no guarantee that other customers will achieve the same results.

² Image quality comparisons were evaluated by phantom tests of MTF, SSP, axial NPS, standard deviation of image noise, CT Number accuracy, CNR, and artifact analysis. Additionally, LCD was demonstrated in phantom testing using a model observer with the head and body MITA CT IQ Phantoms (CT191, CT189 The Phantom Laboratory). DLIR-H and ASiR-V reconstructions were performed using the same raw data.

³ The data was based on comparison between GE HealthCare's legacy products (16 ch and 64 ch scanner) and Revolution Ascend in the three institutions using a pilot product and selected routine head and body. The data set of this comparison was 838 exams for legacy products and 1387 exams for Revolution Ascend. The time saving value may not be effective for all institutions depending on the clinical practice. Defined the scan setting time is from "Open new patient" to "Confirm setting for Scout"

⁴ The required clicks are defined as clicks required to execute a scan from selecting a new patient till start scan. All associated clicks for and in clinical practice, number of the required clicks may vary depending on the circumstances, including but not limited to, the clinical task, exam type, clinical practice, and image reconstruction technique.

⁵ The data was based on comparison between GE HealthCare's legacy products (16 ch and 64 ch scanner) and Revolution Ascend in the three institutions using a pilot product

and selected routine head and body. The data set of this comparison was 838 exams for legacy products and 1387 exams for Revolution Ascend. The time saving value may not be effective for all institutions depending on the clinical practice. Definition of entire exam time is from "Open new patient" to "Last primary recon completed" for Revolution Ascend and "Close exam" for legacy products.

⁶ Not CE-marked. Cannot be placed on the market or put into service until it has been made to comply with the Medical Device Regulation requirements for CE marking or otherwise obtained all required regulatory authorizations.

⁷ This is neither an offer nor an agreement to supply Head Auto Views. Not CE-marked. Cannot be placed on the market or put into service until it has been made to comply with the Medical Device Regulation requirements for CE marking or otherwise obtained all required regulatory authorizations.

⁸ StrokeSENS™ is legally manufactured by Circle Neurovascular Imaging, Inc. StrokeSENS is not available for sale in all countries.

⁹ 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.



GE HealthCare