



Revolution Ascend Platform

A new revolution in CT efficiency



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





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







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.

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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"

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	

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

Designed to enhance what matters

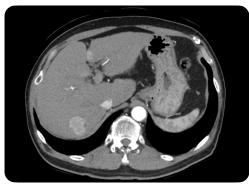
True Enhance DL²

For challenging oncology cases or pulmonary embolism evaluation, True Enhance DL is designed to enable better detectability and diagnosis when increased contract resolution is needed.

Deep Neural Network (DNN) to generate deep learning-based monochromatic-like images from single-energy X-ray.

True Enhance DL uses a dedicated

Arterial Phase



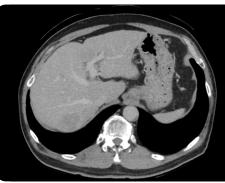
Portal Phase





This technology is engineered to provide you with incredible image quality without a radiation penalty and a simple workflow.

Venous Phase



120 kVp

WW 400

WL 40

True Enhance DL 50 keV



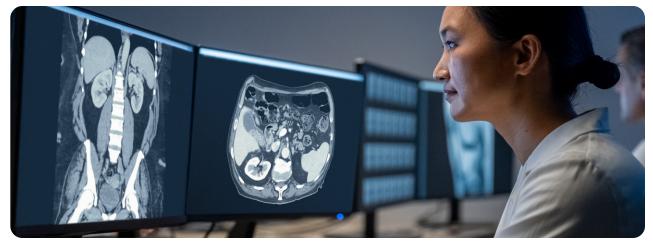
² True Enhance DL is 510(k) pending in the U.S. FDA. Not available for sale in the United States.



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.³



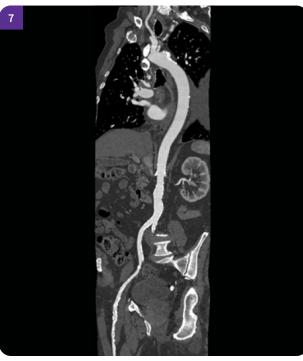
Filtered Back Projection (FBP)
ASiR-V 60%
TrueFidelity DL

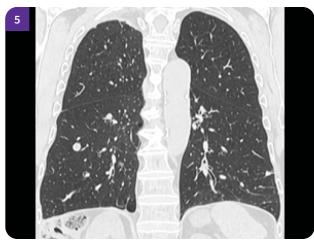


















"We have seen the improvement in iterative reconstruction, but deep learning reconstruction takes it to a new level in terms of bringing the radiation dose down, while also improving image quality.1"

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

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.



GB GE

Auto Positioning

► 56% reduction in positioning time⁴ 1111111111111111

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

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



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Auto Prescription

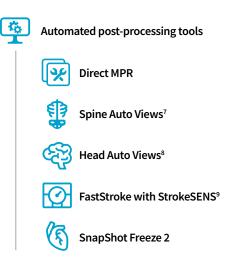


 Home Positioning & Remote Control Suite

Post-scan

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





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.

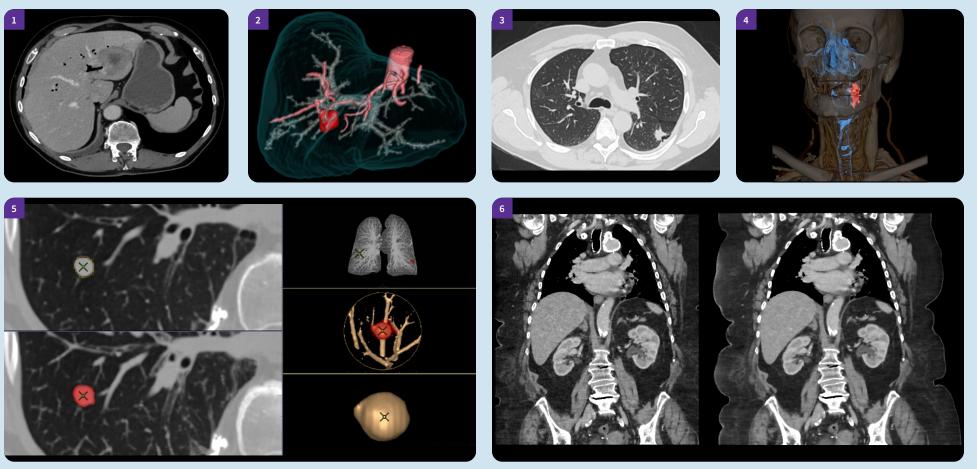
Revolution Ascend

	Revolution Ascend	Revolution Ascend Plus	Elite
	Select		State-of-the-art detectability and diagnosis
		Best-in-class with a faster workflow from	
	High performance for routine and basic coronary analysis	referral to report	
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	-	-	•

🛃 Image gallery

Insightful images

Oncology



Liver tumor, TrueFidelity DL
HCC 100 kV volume illumination
Post-op biopsy lung

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

For challenging patients

Cardiovascular

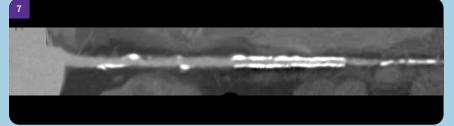




Low dose TAVI acquisition using 80 kVp
Aortic dissection with TrueFidelity DL
CCTA



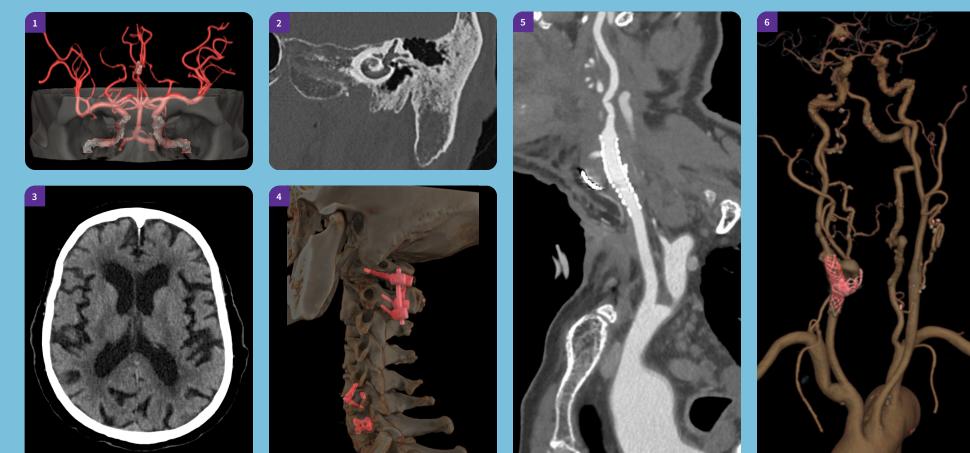




Thoracic aorta
CTA carotids
CCTA with mixed plaque, AW plaque analysis
CCTA intrastent lumen view

Quick and clear

Neuro



Circle of Willis for clipping using MAR
High-resolution inner ear
Non-contrast brain
Cervical spine using MAR

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

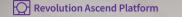
For every patient

General imaging



Lumbar spine
High-resolution lung
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.

GE HealthC









Al-based Auto Positioning



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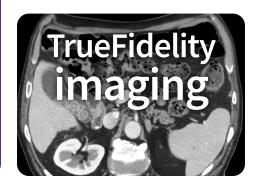
Scalable design

Interventional CT-ready

•28 mm spatial resolution



Effortless Workflow ↓↓



About GE HealthCare

GE HealthCare is the \$18 billion healthcare business (NYSE: GEHC). As a leading global medical technology and digital solutions innovator, GE HealthCare enables clinicians to make faster, more informed decisions through intelligent devices, data analytics, applications and services, supported by its Edison intelligence platform. With over 100 years of healthcare industry experience and around 50,000 employees globally, the company operates at the center of an ecosystem working toward precision health, digitizing healthcare, helping drive productivity and improve outcomes for patients, providers, health systems and researchers around the world.

Follow us on Facebook, LinkedIn, 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.

 $^{\rm 2}$ True Enhance DL is 510(k) pending in the U.S. FDA. Not available for sale in the United States.

³ 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.

⁴ 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"

⁵ 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.

© 2023, GE HealthCare. Revolution and TrueFidelity are trademarks of GE HealthCare. GE is a trademark of General Electric Company used under trademark license. JB26160XX ⁶ 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.

⁷ 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 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.

⁹ StrokeSENS™ is legally manufactured by Circle Neurovascular Imaging, Inc. StrokeSENS is not available for sale in all countries.

