Revolution CT/Revolution CT ES with Apex Edition upgrade pathway

Lead CT now and into the future

GE HealthCare

Trends in radiology

Digitalization
Clinicians are leveraging AI more than ever to stay on the cutting edge of imaging

Patient outcomes
Personalized care solutions are being optimized for each patient

Capacity
Greater efficiences are being implemented to help improve consistent, high-quality imaging for each exam

Productivity
Smart and automated workflow solutions are being enabled and connected across imaging sites

From here, anything is possible

Your upgrade pathway

Through hardware and software upgrades, Revolution CT/ Revolution CT ES seamlessly integrates the technologies that are foundational to a greater performance.

Healthcare providers need a cost-effective system that has the flexibility to evolve with the demands of its users and accommodate for future growth. Revolution Apex is made for this. Upgrading to the Revolution CT with Apex Edition means gaining outstanding image quality for your patients, today and tomorrow.

Next-level image quality
A 0.23mm spatial resolution, along with TrueFidelity deep learning image reconstruction for both single energy and spectral, help to improve lesion detectability, diagnostic performance and confidence.

Operational efficiency
Effortless Workflow utilizes AI technology to automate nearly every step of the scanning process. From pre-scan to post-scan, you can save time, improve work efficiency and personalize the scan for every patient.

Dose and contrast optimization
With the latest in advanced CT technology, you can optimize dose and contrast for every scan.

Obsolescence protection
The Revolution Apex platform has built-in scalability and upgradability that helps departments meet today's priorities, while seamlessly keeping pace with the latest technological advancements for future clinical needs.

Expand clinical service lines
Through breakthrough technology, Revolution Apex platform is able to help facilities expand their service lines to cardiac, ED, pediatrics even for challenging case.

Greater patient access and care
With an 80cm bore and powerful technology, the Revolution Apex platform is able to provide greater patient access and better patient care.

Keeping pace with technological advancements

2014-2015

Launch
Revolution CT

2016

Workflow
Enhancement

2017

Introduce Spectral capability
Introduce Revolution CT ES

2018

GSI Neuro
Radiation Oncology
capability

2019

Introduce TrueFidelity
Highest Power tube
Launch Revolution Apex CT

2020

TrueFidelity with Spectral
Deep Learning MaxFOV
Remote Control

2021 – 2022

Launch Apex
platform Industry
fastest 0.23s
rotation Effortless
Workflow

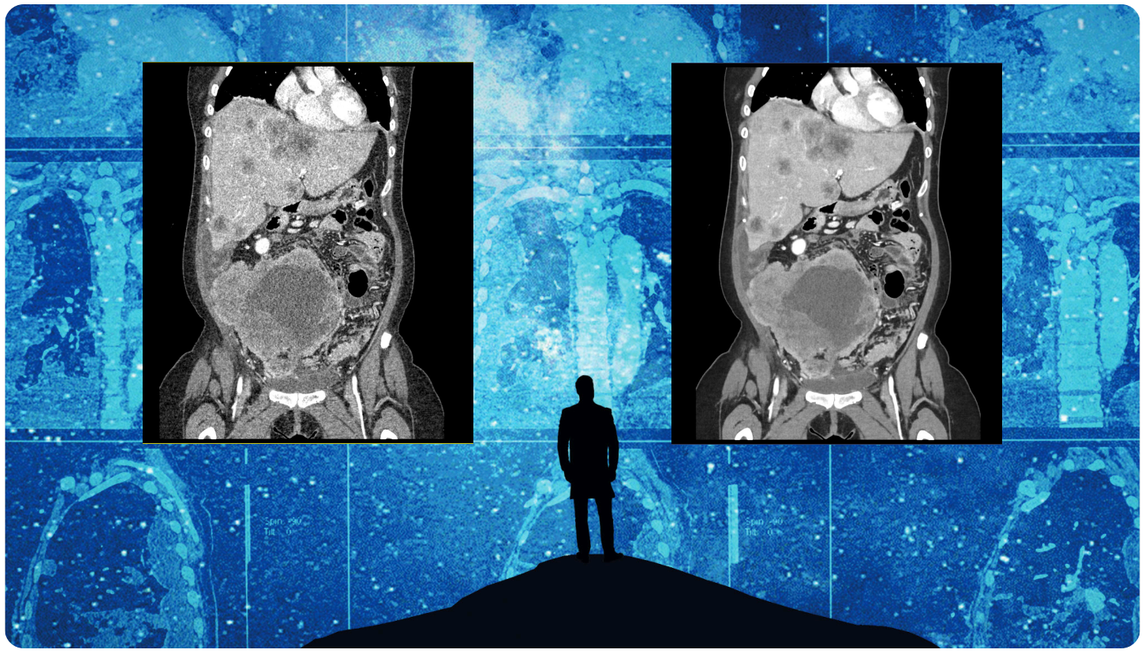
2023

ECG-less Cardiac
0.23s on 80mm
Tube Watch
Interventional
solution

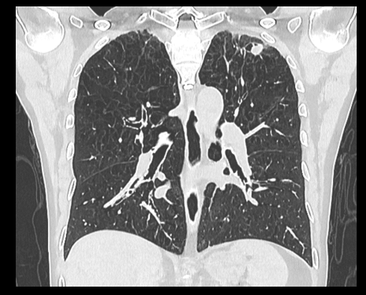
TrueFidelity exceeds your expectation of image quality

TrueFidelity uses a dedicated Deep Neural Network to generate low noise and high-definition CT Images, delivers **outstanding detail, clarity, texture, and low dose, without compromise**. TrueFidelity CT Images have the potential to **improve reading confidence** in a wide range of clinical applications.

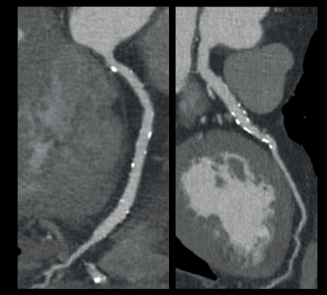
Fully integrated with both single energy andspectral imaging. Natively running on Recon Server Xtream for fast reconstruction of routine CT use, even in acutecare settings.



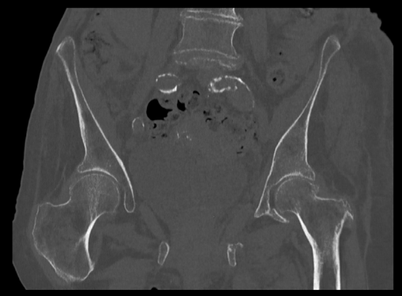
Abdomen
Great depiction of details in low contrast imaging tasks



Chest
Removed noise with superior CNR allowing for better detectability

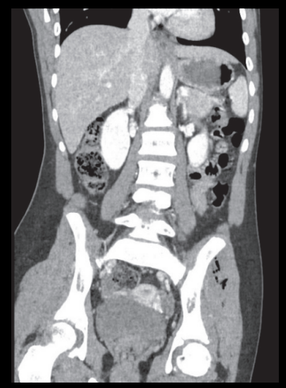


Cardiac
Clearer boundary distinction between the vessel and calcified plaque



MSK
Improved image texture for better detection on tiny fracture

Neuro
Improved grey/white matter differentiation to discern small hemorrhages



Pediatric
Great image texture at lowest possible dose

Obese patient
Excellent CNR, lesion delineation, with improved texture, even for obese patient

Emergency patient
TrueFidelity DL's powerful recon engine could handle emergency setting

Industry fastest rotation time bringing clarity to all cardiac cases

We introduced industry fastest gantry rotational speed – **0.23**sec/rot* and best temporal resolution* – **19.5**msec with Snapshot Freeze 2.* Snapshot Freeze 2 **intelligent motion correction** algorithm, designed for coronary and valve motion correction, chambers, myocardium correction, great vessels motion correction.

"Today with 0.23sec/rotation, we don't administer beta blockers. We don't monitor the heart rhythm in advance, even when patients have a very high heart rhythm.

That's a significant improvement between the past and today's CT scans because the workflow is much more efficient."

Dr. Joost Delanote, Radiologist, AZ Sint-Jan Brugge, Oostende, Belgium

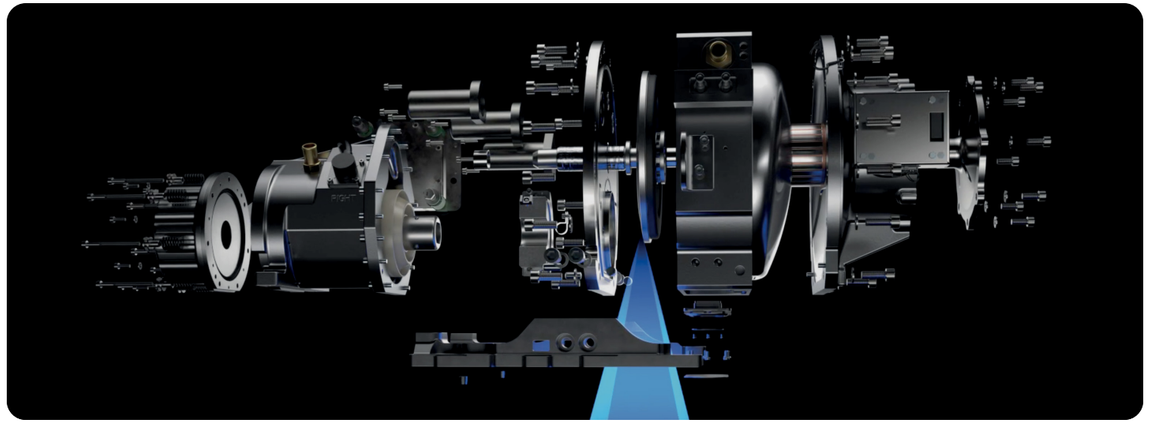
Disclaimer: Represents the findings of single center studies and is varied by clinical indications, study protocols and comparison methods. The results obtained in these studies are not generalizable and may not be reproducible.

Most powerful x-ray tube, we've ever made

Power like never before

Quantix™ x-ray tube delivers maximum of **1300mA** flux output, enable low kV scanning which has the potential to increase the contrast-noise-ratio, reduce radiation dose, reduce iodine dose[1-5].

It provides needed power for toughest challenges in modern CT imaging: obese patients, ultra-fast scanning, low kV imaging and spectral imaging. Quantix tube also enables kV/mA dual switching , can result in superior spectral image quality, gives access to large patient.



1. If radiation and iodine dose are fixed.
2. If CNR is fixed.
3. If radiation dose and CNR are fixed.
4. *Nakayama, Y., Awai, K., Funama, Y., Liu, D., Nakaura, T., Tamura, Y., Yamashita, Y.* (2006). Lower Tube Voltage Reduces Contrast Material and Radiation Doses on 16-MDCT Aortography American Journal of Roentgenology 187(5), W490-W497.
5. *Huda, W., Vance, A.* (2007). Patient Radiation Doses from Adult and Pediatric CT American Journal of Roentgenology 188(2), 540-546.

Next generation of Spectral imaging powered by deep learning

Clarity. Versatility. On demand

Next generation spectral achieves next level spectral image quality and superior quantification accuracy with deep learning, with reduced image noise, improved CNR and LCD, preferred noise texture, great depiction of the boundaries and structures of lesions for confident diagnostic assessment,* and **provides versatile clinical capability with fast speed, even for challenging exams.**

Spectral imaging on demand powered by Effortless workflow and Smart Subscription, spectral provides seamless workflow even for acute setting.

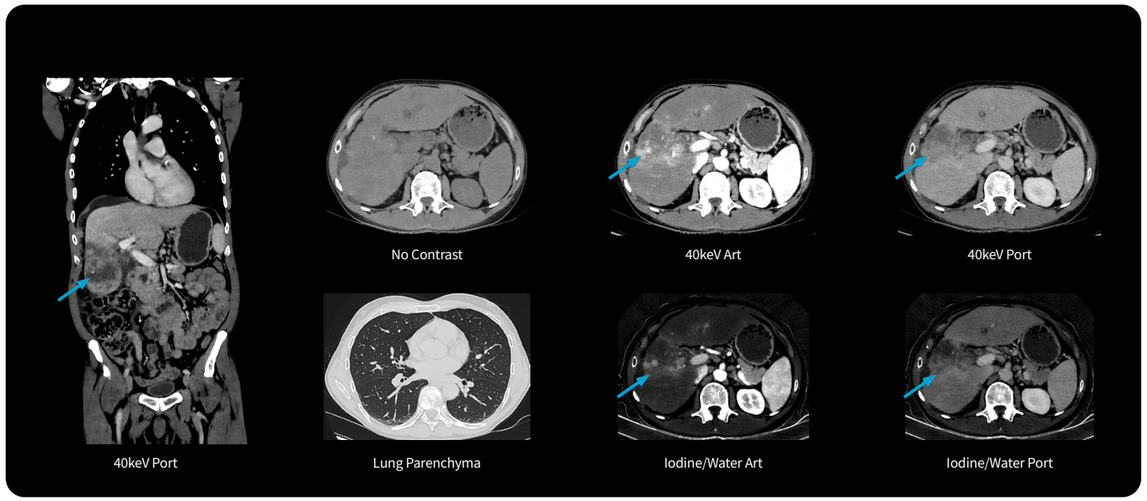


Image noise: As compared to ASiR-V. Demonstrated in testing using the uniform section of the Catphan® 600 with the CTP579 oval body annulus comparing pixel standard deviation in images reconstructed from the same raw data, at 0.625mm with DLIR-H and ASiR-V 50%.

CNR: As compared to ASiR-V. Demonstrated in testing using images of the CT ACR 464 Phantom (Gammex) and its 25mm low contrast cylinder reconstructed from the same raw data with DLIR-L, DILR-M, and DLIR-H and ASiR-V 50%.

LCD: As compared to ASiR-V. Evaluated using the body MITA CT IQ Low Contrast Phantom (CCT189, the Phantom Laboratory) with the CTP579 oval body annulus and a model observer with images reconstructed from the same raw data with DLIR-H and ASiR-V 50%.

Simplified scanning from start to finish

Intelligent Protocoling reduces the time spent searching for protocols and may help in reducing errors in protocol selection.

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

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.

"Workflow efficiency is critical. We have seen that by mapping our process. We can see some of our pain points and then we can automate, decrease errors, provide better standardization and less variability."

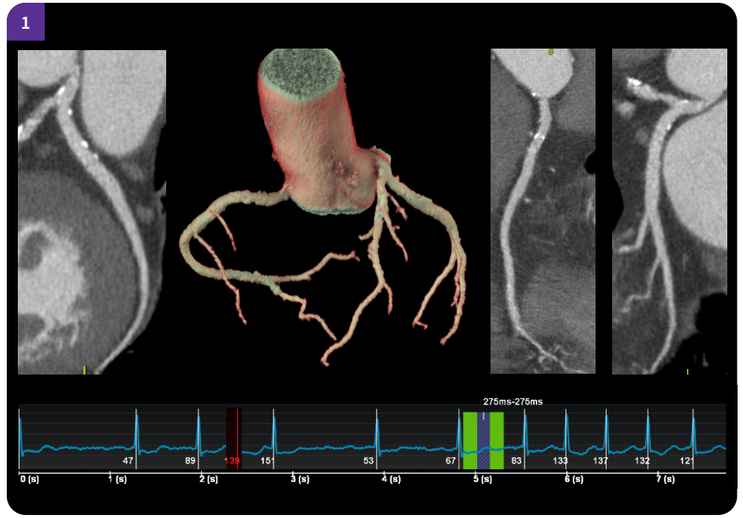
Ricardo Cury, M.D., Chairman of Radiology, Baptist Health

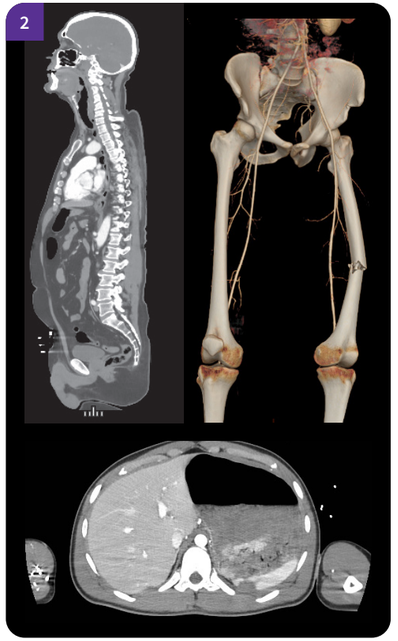
Be ready for anything and anyone

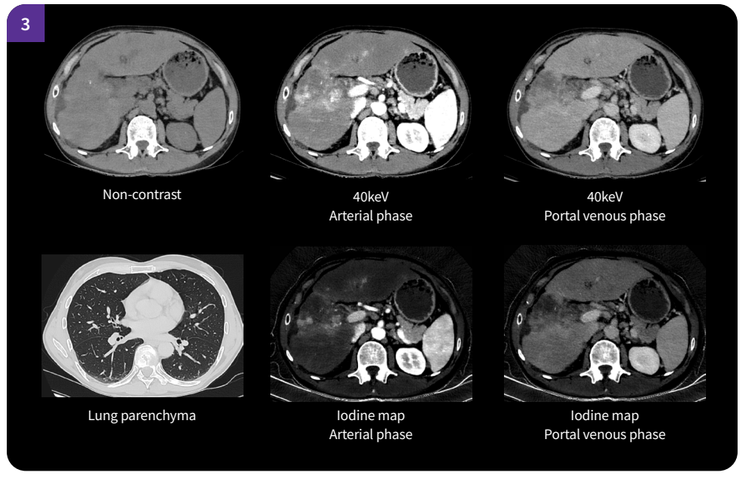
- Cardiac
- Stroke
- Oncology
- MSK
- Chest
- Pediatric
- Emergency
- Obesity

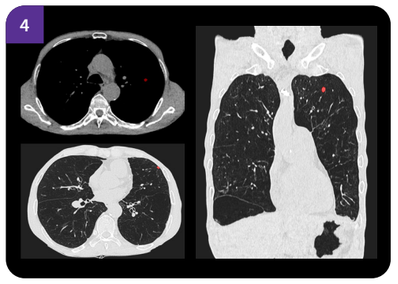
Today's radiology departments have to be ready for everything. Patient volumes continue to grow, cases are growing in complexity and rapid advancements in disease management keep pushing you to expand your imaging service lines.

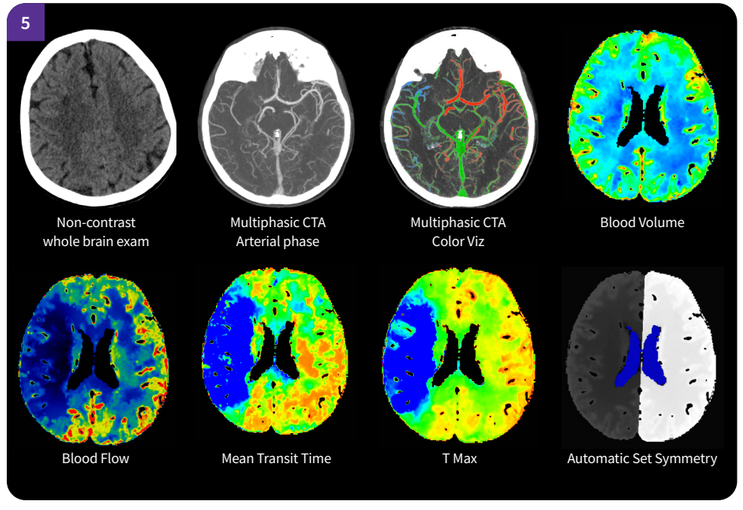
When you upgrade to the Revolution Apex platform, you'll have access to unparalleled image quality, lower dose and exceptional clinical solutions for both routine and challenging cases across all care areas.

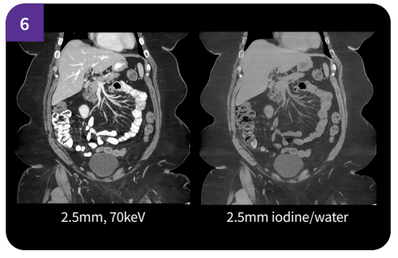












1. One-beat cardiac. Simple for all at any heart rate and rhythm, with low radiation dose.
2. Ultrafast trauma exams with spectral imaging for all body types.
3. Spectral imaging to facilitate the post-treatment evaluation for a patient with liver cancer.
4. Ultra-low dose chest exam with HyperDrive, less than 1 second scan time.
5. Acute stroke rule out in less than five minutes.
6. High quality spectral imaging even for morbidly obese patients.

A CT that keeps getting better

Smart Subscription, a subscription service that provides access to the latest capabilities for your CT.[1]

Keep pace
Smart Subscription is the industry's first subscription-based service for CT that helps you keep your computing platform and software up to date and keep pace with clinical and workflow innovations.

Consistency
It enables you to provide consistent exams by having the same capabilities across all your systems at all your sites.

Flexibility
Smart Subscription includes a broad range of application packages across many different imaging services, giving you the flexibility to pick the right plan for you.

Base package

Base – Recon & IQ

\+

Additional packages

Cardiology | General Imaging | Neurology | Spectral | RT

Smart Subscription Unlimited

"Our group has two strategic pillars, which consist of innovation and excellence in diagnosis. With Smart Subscription we are able to remain on top of technological advances and thereby stay aligned with our strategic pillars."

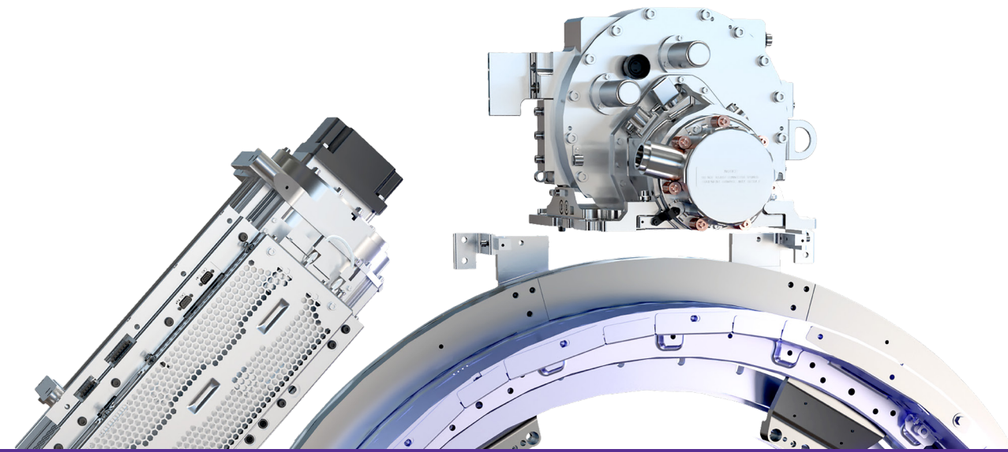
Dr. Hugues BRAT, Chief Medical Director, 3R Réseau Radiologique Roman, Switzerland

Reduce disruptions. Enhance care.

Tube Watch is an AI-based digital twin technology that remotely monitors your system 24/7. Tube Watch sends alerts and predicts when potential tube and X-ray chain failures may happen. Tube Watch also helps enable convenient parts planning and service scheduling. This avoids the risk of your system being down before and during examinations.

Tube Watch[2]

79% reduction in unplanned downtime



Financial stability
Maintains exam revenue

Staff peace of mind
Avoids disruption to patient care

Patient quality of care
Supports on-time diagnosis

Engineer empowerment
Helps to address issues proactively

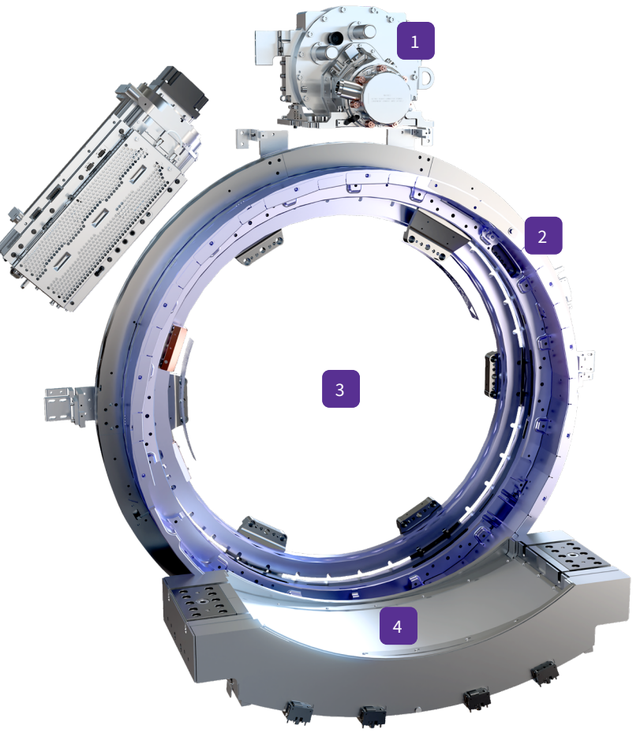
Built-in scalability with unmatched upgradability

Be ready for every future

Revolution Apex platform is the first in the industry that allows for onsite CT detector upgrades without forklifting the CT gantry.

This is possible because the entire imaging chain has been designed, built and optimized for upgradability and future scalability. Our modular Clarity Detector is the foundation of this approach.

Your Clarity Operator Environment will also receive regular updates that can easily be downloaded to your system.



1 **Power**
Upgrade from Power Pro 1200mA to PowerXtream with a maximum of 1300mA

2 **Gantry speed**
Upgrade up to 0.23sec rotation time

3 **Clarity Operator Environment**
Get regular software upgrades with new capabilities, workflow and image quality enhancements, dose management, cybersecurity and service tools.

4 **Detector coverage**
80mm upgradable to 160mm.

The future is green

We support carbon policies that reduce greenhouse gas emissions and promote sustainable development. We are committed to achieving net zero by 2050 and are part of the UN-backed “Race to Zero,” with a goal of reducing emissions based on the Paris Agreement.

We’ve also set a public goal to achieve a 50% reduction in our own operational emissions by 2030.

1
Reduce bloat technology
Scalable to the core

85% of the materials used in the Revolution Apex platform are recyclable at the end of its lifespan.

2
Reuse to expand potential
Live past the lifetime

Our CT systems are built with scalability and upgradability to help prevent technology obsolescence and advance clinical capability.

3
Recycle once done
Sustainable to the end

94% – 96% of most systems are reused, refurbished, or recycled, extending the lifetime of each product.

About GE HealthCare Technologies Inc.

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 125 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 approximately 51,000 colleagues working to create a world where healthcare has no limits.

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

[1] Software available to customer is dependent on the software package purchased by customer.

[2] Calculation is based on the avg downtime generated by a CT Revolution Apex for a tube or X-ray generation chain failure vs the average planned labor time. Percentage noted is based on various assumptions, including but not limited to the use of Tube Watch consistent with the Tube Watch terms and conditions, timely receipt of the tube-health notice, parts and labor availability, immediate access to customer's equipment. As each hospital is unique, results may vary. GE HealthCare does not guarantee the results identified herein.

GE HealthCare