



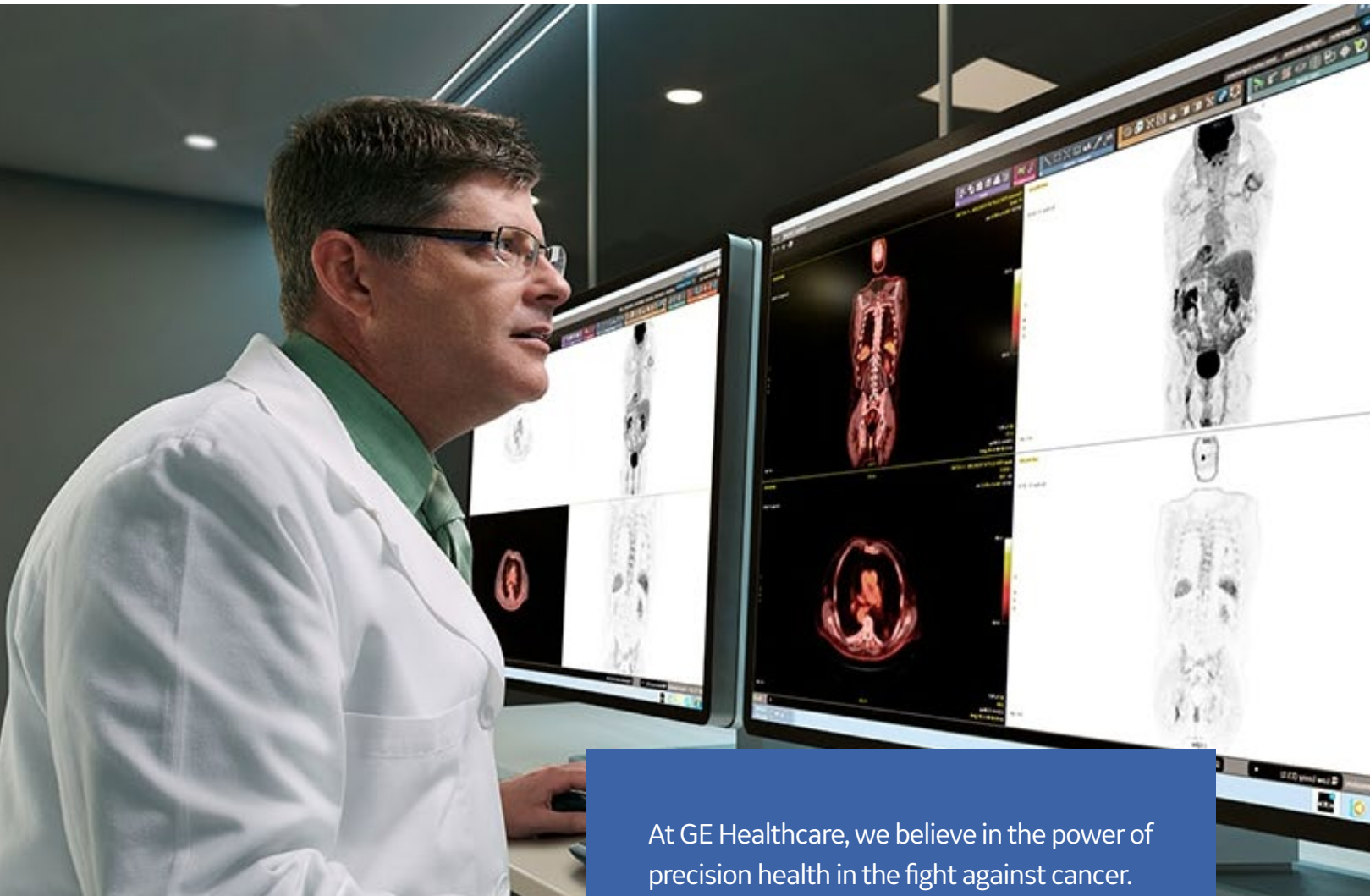
GE Healthcare Radiation Oncology Solutions

Multimodality Planning and Guidance

Precision
Imaging Solutions
for Advanced
Cancer Care



Advancing precision health in radiation therapy



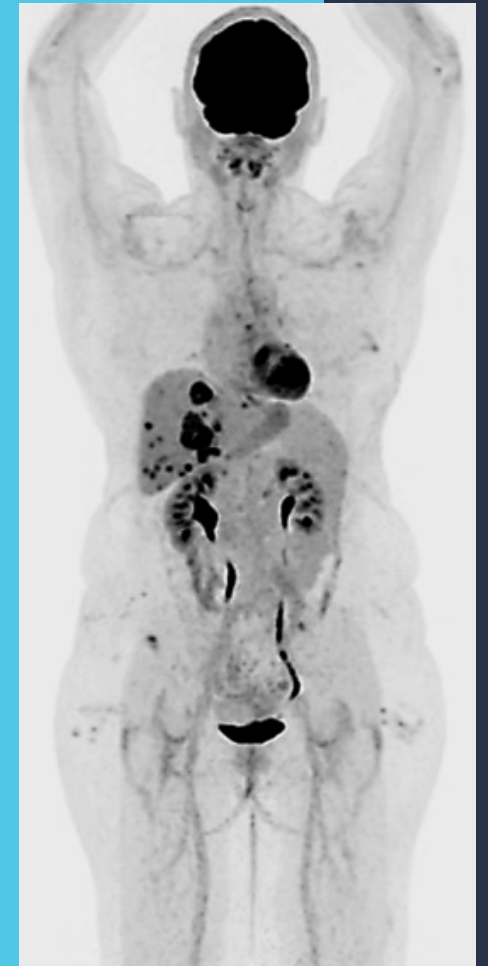
At GE Healthcare, we believe in the power of precision health in the fight against cancer. After all, when you're treating a disease on the cellular level, areas are defined by fractions of millimeters. As a result, you must have the right equipment and tools to precisely locate a lesion, diagnose it, define its shape, plan and guide its treatment, as well as monitor its progress. Our goal is to empower you to accomplish that, and more, with your Radiation Therapy practice.

A comprehensive approach to radiation oncology

Complex problems, like the treatment of cancer, require comprehensive solution sets. GE Healthcare has adopted a broad-based, holistic approach toward the fight against cancer.

In terms of Radiation Oncology offerings, ours begins with a full line of multimodality Radiation Therapy (RT) imaging and workstation products and solutions, including:

- **Computed Tomography (CT)**
- **Magnetic Resonance (MR)**
- **Positron Emission Tomography/CT (PET/CT)**
- **PET/MR technologies**
- **Ultrasound**
- **Advanced workstations**



To extract optimal performance from our Radiation Oncology equipment, we also offer a suite of industry-leading digital infrastructure, digital analytics, and digital support tools that:

- **Perform complex treatment simulations**
- **Improve RT workflows**
- **Elevate treatment planning efficiency**
- **Improve patient positioning and radiation dose calculation**
- **Enhance imaging capabilities**
- **Keep equipment automatically updated with the latest versions of software**

Beyond providing radiation therapy hardware and software solutions, GE Healthcare helps you take on cancer in other ways you may not expect.



GE Healthcare PDX (Pharmaceutical Diagnostics)

Our PDX business is able to dependably provide a wide range of imaging agents needed for use in molecular imaging applications.



Education and Training

GE Healthcare Educators are committed to helping you provide better patient care through our high performance education programs.



GE Healthcare Research

Across the medical spectrum, our research teams are renowned for innovations that lead to improved clinical outcomes and transform lives.



Service and Support

GE Healthcare has a worldwide network of dedicated field service teams that can keep your operation running predictably and efficiently.



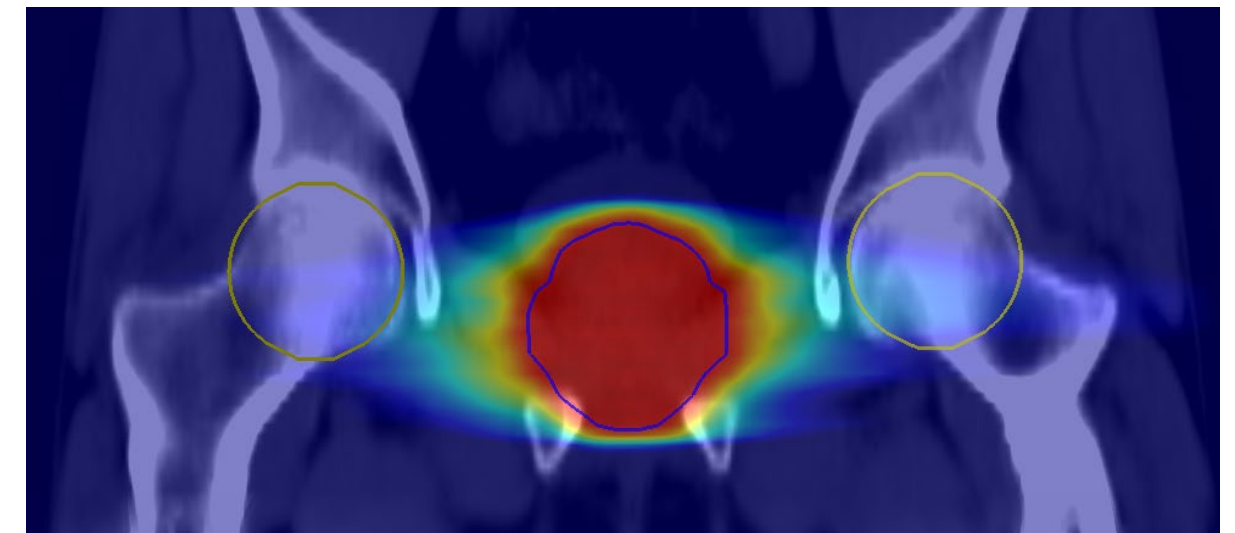
Equipment Financing

GE can deliver financing solutions that meet the needs of our customers so they can stay focused on delivering world-class care to their patients.

The power of partnerships

We're proud of our leadership position in the field of Radiation Oncology. But we wouldn't be where we are today without the long-term partnerships we've forged with other leading medical equipment manufacturers and top-tier medical research institutions around the world. At GE Healthcare, we believe these partnerships as well as our unique approach to developing technologies that help physicians combat disease and foster innovations that inspire hope.

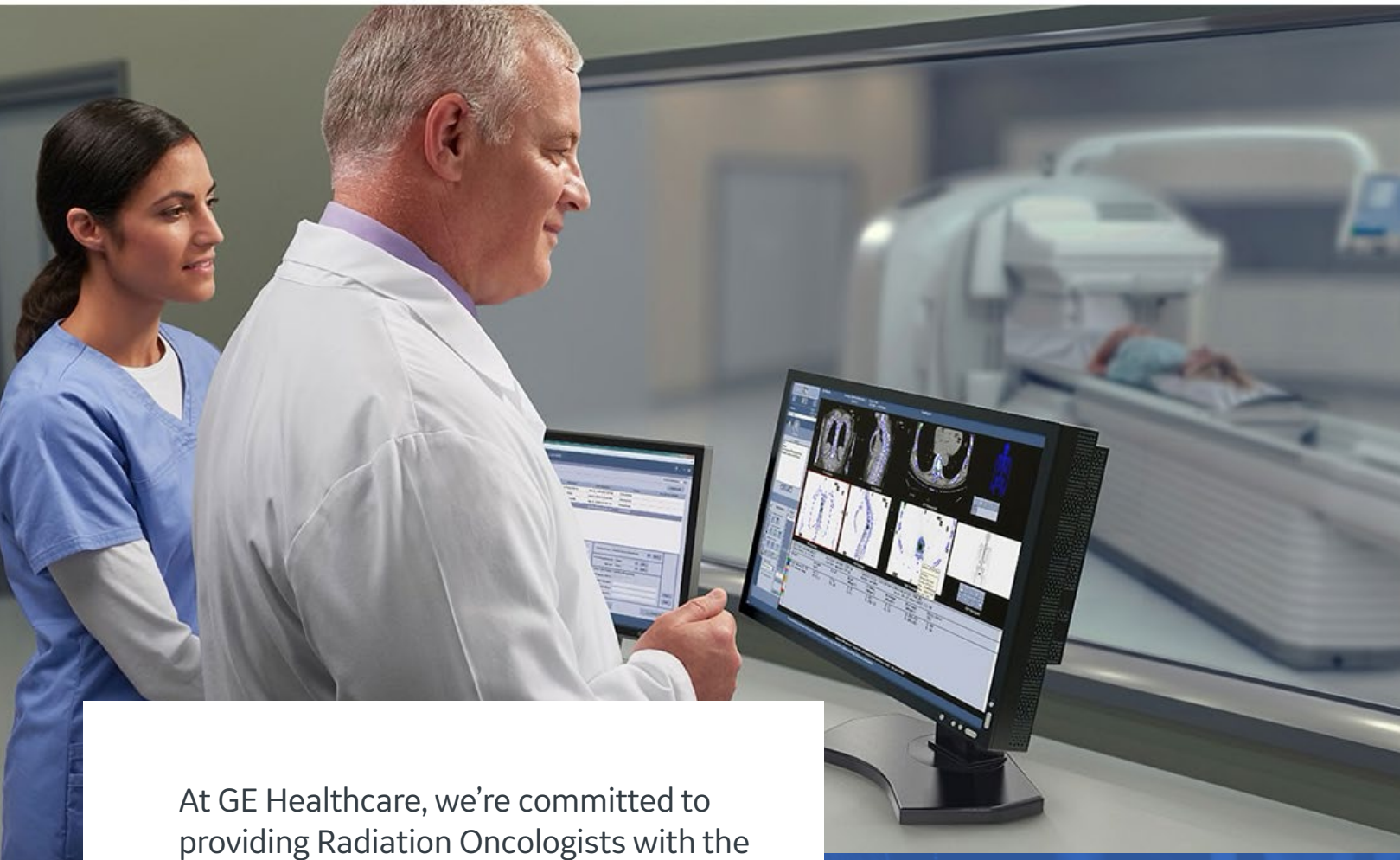
A commitment to unsurpassed RT expertise



Every component in our multimodality portfolio of Radiation Therapy equipment reflects our long-term commitment to Radiation Oncology and precision health. The fact that our RT systems and solutions are found in the leading cancer research centers around the world, along with having a large installed base of CT machines illustrates GE Healthcare's experience with regards to best-in-class processes, protocols, and complete interoperability.

In addition to offering a wide variety of Radiation Therapy products and services, our ability to help you deliver precision guidance is truly manufacturer agnostic. Regardless of the therapy delivery manufacturer, or other components in your Radiation Oncology department, the quality of our therapy planning and guidance does not waver.

Computed Tomography



At GE Healthcare, we're committed to providing Radiation Oncologists with the equipment, support, and expertise they need to give their patients personalized, precision care. Innovation is the key. Our advanced Computed Tomography equipment provides high quality imaging for RT planning and guidance as well as a positive patient experience that inspires hope.

Perhaps that is why only GE Healthcare has a large installed base of CT equipment.



Discovery™ RT

The Discovery™ RT system is a comprehensive Radiation Therapy planning solution that allows you to see all that your CT can see. Characterized by its precision, efficiency, and integration, the Discovery RT takes an all-encompassing approach to highly personalized Radiation Therapy planning.

Precision

Precision imaging for RT Guidance requires that you capture all that your CT can see for every patient in any bed position.

- Utilizing several of our proprietary algorithms, the all-new MaxFOV provides you with edge-to-edge acquisition with virtually no blindspots, delivering CT images with industry-first specified spatial and density values.
- Powered by a 100 kW generator and 0.625 mm slice thickness, our exclusive MicroVoxel technology delivers superb 2D and 3D images through the optimum choice of sub-millimeter slice thickness and reconstructed voxel size.

Efficiency

Discovery RT enables you to maximize efficiency by minimizing two of your CT workflow's biggest challenges: metal and motion.

- Using raw data, Smart MAR technology enables you to reduce artifacts caused by both proton starvation and beam hardening; and with a single scan, Smart MAR automatically generates both corrected and uncorrected images for quick comparisons.
- Simplifying workflow utilizing Smart Deviceless 4D eliminates as many as half of the manual steps from conventional device-based 4D workflow by providing respiratory gating without an external device.

Integration

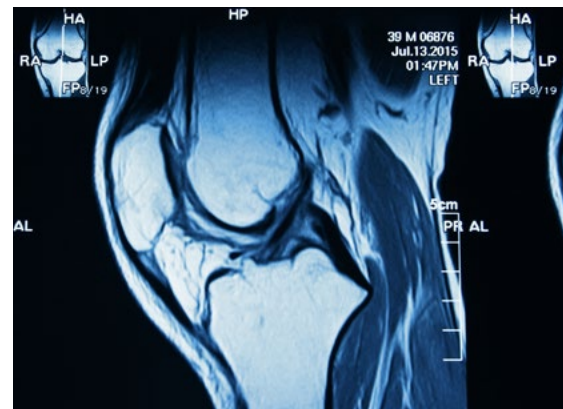
Integrate 4D data into the planning process, fuse together multiple volumetric acquisitions, or load and display data sets from multiple modalities. Discovery RT has the capability to augment and share all the image data it sees.

- Increase productivity using AdvantageSim MD to create effortless 4D reviews and simulation, then add unlimited flexibility to utilize multimodality planning.
- Use the AW Server to provide advanced visualization and diagnostic capabilities when and where you want them while facilitating image sharing with whomever you want.



Revolution CT ES

GE Healthcare's CT simulator delivers precise and efficient RT imaging solutions. Built upon the proven and powerful Revolution platform, Revolution CT ES is equipped with a 128-row Gemstone Clarity detector, Deep Learning Image Reconstruction, and Gemstone Spectral Imaging to deliver superb clarity for precise and efficient treatment planning images. Its capabilities empower you to stay ahead of the curve in an increasingly competitive market. The Revolution CT ES can be customized to your needs by expanding detector coverage from 80 mm to 160 mm. It is designed to exceed your expectations today and provide scalable solutions that broaden your capabilities tomorrow.



Deep Learning MaxFOV 2

Boost your confidence with a full field-of-view at the accuracy you specify. The precise dose calculation in CT simulation requires the full and accurate view of the patient's skin line and tissue densities. In practice, truncation often occurs in CT images due to the limited display field of view (DFOV), extra-large patient size, or the unique off-centered patient positioning needed to accommodate immobilization devices.

MaxFOV 2 is an AI-powered, extended-field-of-view technology that expands DFOV up to 80 cm, with specified accuracy in depicting skin line and attenuation:

- **2 mm skin line with 40 HU accuracy in DFOV up to 70 cm**
- **3 mm skin line with 60 HU accuracy in DFOV up to 80 cm**

The high accuracy-of-patient-contour and tissue density determination of MaxFOV 2 enables you to confidently determine dose calculations.

Deep Learning Image Reconstruction for TrueFidelity CT Images

GE's Deep Learning Image Reconstruction is the industry's first AI-powered CT image reconstruction technology. Its deep neural network (DNN) can discern noise from signals, and intelligently suppresses the noise without impacting anatomical and pathological structures.

The resulting TrueFidelity CT images have superb high-contrast spatial resolution, low-contrast detectability, and preferred-looking image texture.



Gemstone Spectral Imaging

Gemstone Spectral Imaging (GSI) is routinely used in diagnostic oncology and is GE's proven DECT solution, which enables the generator to switch beam energy between 80 kVp and 140 kVp within microseconds. With this capability, GSI is able to:

- **Achieve a 0.25 ms cycle time**
- **Achieve simultaneous temporal and spatial registration**
- **Get better energy separation with full 50 cm spectral Field of View**

GSI's unique, fast KV switching design with projection-based material decomposition achieves excellent quantification accuracy and material differentiation while reducing artifacts. When leveraging different GSI images, potential benefits in target delineation, normal tissue characterization, and dose calculation accuracy, include:

- **Monochromatic images**
- **Iodine images**
- **Virtual unenhanced image (VUE)**
- **GSI Metal artifact reduction (MAR)**
- **Effective-Z**
- **Artifact reduction**

Magnetic Resonance

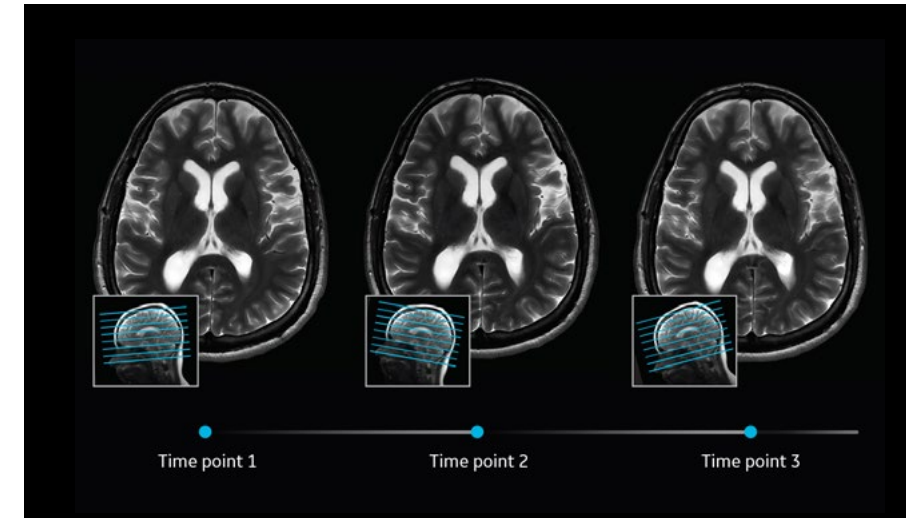
Thanks to its outstanding soft tissue contrast, GE Healthcare's portfolio of innovative SIGNA™ Artist & SIGNA Architect MR scanners bring newfound imaging capabilities to multimodality Radiation Therapy planning and guidance. Years of continuous development have yielded important gains in image quality, patient comfort, and increased productivity. Regardless of any manufacturers already present in your RT suite of equipment, our MR scanners integrate seamlessly with them and your protocols – which helps ensure your ability to deliver the highly personalized, precision care every patient deserves.



SIGNA™ Artist & SIGNA Architect

Our SIGNA™ family of MR scanners for 1.5T and 3.0T are designed to help tailor your RT planning to take advantage of the latest advancements in the use of MR for Radiation Therapy, while maintaining their utility for use as routine MR scanners.

The SIGNA™ family includes 70 cm wide bores and intelligent technologies that enable patient-friendly exams. The AIR™ family of products delivers patient comfort and intelligent productivity improvements that combine to deliver improved patient experiences and superior image quality.



AIR™ Workflow

Using innovative Artificial Intelligence (AI), AIR™ Workflow leverages the strengths of our innovative AIR™ Coils with two automated applications that help you work smarter and quicker.

- AIR™ Touch simplifies scan set up with customized parameters and provides a predictive and proactive solution that automatically selects the best coil element combinations for each patient over the precise area-of-interest.
- AIRx™ uses deep learning algorithms to automatically detect and prescribe reproducible slices in the treatment position for neurological RT simulation and same-patient follow-up.

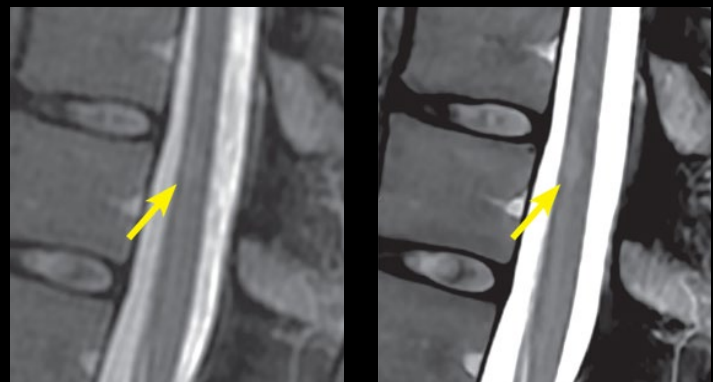
AIR™ Coils

These industry-first, truly lightweight, and flexible coils lay the groundwork for greater positioning freedom, a more comfortable patient experience, and the accommodation of RT accessories.

- AIR™ Anterior Array Coils feature the largest coverage and channel count in the industry, plus its ultra-low profile design fits patients of all shapes, sizes, and ages.
- AIR™ Multi-Purpose Coils provide increased acceleration compared to previous generations of coil technology.



The power of MR-only radiotherapy planning

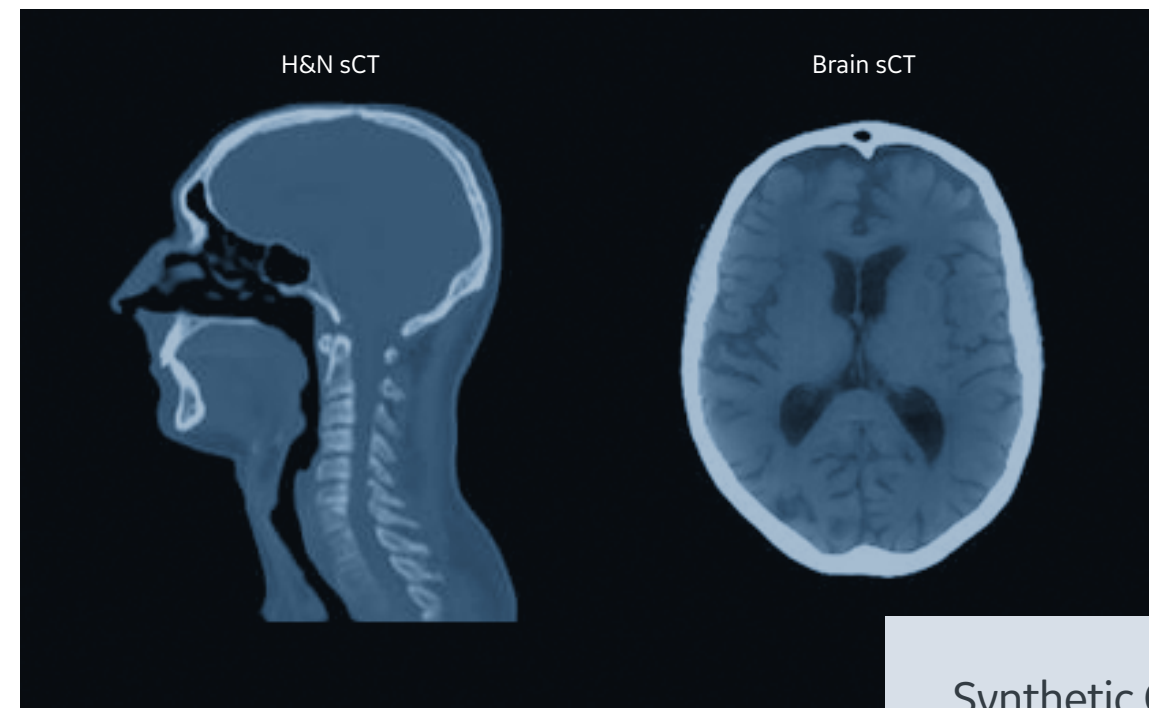


Conventional (1:59 min.) vs. AIR™ Recon DL (1:18 min.)

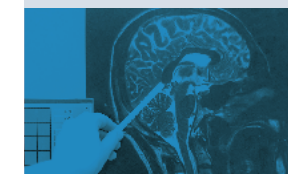
AIR™ Image Quality and geometric accuracy

Reconstruction is at the heart of every MR scan, and the reduction of noise is critical to achieving high-quality images. AIR™ Image Quality reconstruction software helps improve SNR and image sharpness without having to overcompensate in scanning protocol.

- AIR™ Recon DL is a deep learning-based reconstruction algorithm that enhances productivity through significant time savings. Additionally, it improves SNR and image sharpness while preventing artifacts from being introduced to your images.
- AIR™ Recon is always on and works in the background, collecting noise data during prescan to improve SNR, remove out-of-FOV artifacts, shorten scan times, and deliver the image quality you need on the first scan. Industry leading geometric accuracy with both 2D and 3D gradient non-linearity correction provides precision Radiation Therapy treatment planning.
- QA Phantom is a powerful QA tool that gives physicists the ability to measure the MR scanner's geometric distortion with sub-millimeter precision providing full coverage of the effective field-of-view. It features fully automatic processing of Phantom software and generates its own comprehensive evaluation report.



Synthetic CT: a breakthrough in soft-tissue treatment planning¹



While CT remains the standard for radiation treatment planning, CT images lack the soft tissue contrast that is

so vital for effective treatment of many common types of radiation oncology therapies. By combining our existing MR technology with Spectronic Medical's software, we've created a complete deep learning capability that enables synthetic CT coverage of brain, pelvis, and – unique to GE Healthcare – the head and neck region. The resulting synthetic CT image continues radio density maps with a spectrum that is similar to conventional CT.

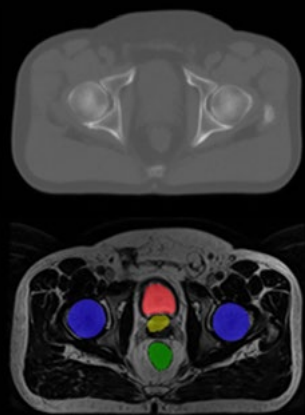
Radiation oncology therapy grows increasingly more sophisticated with each passing year. GE Healthcare's commitment to leadership means that sometimes we look outside our own company to integrate technologies that advance Radiotherapy and improve outcomes for patients.

One of our latest partnerships involves the integration of Spectronic Medical AB's AI-based software with AIR™ Recon DL deep learning image reconstruction technology to convert data from MR scans into synthetic CT images. This MR-only based solution generates better soft-tissue differentiation than traditional CT scans for more precise cancer treatment planning.

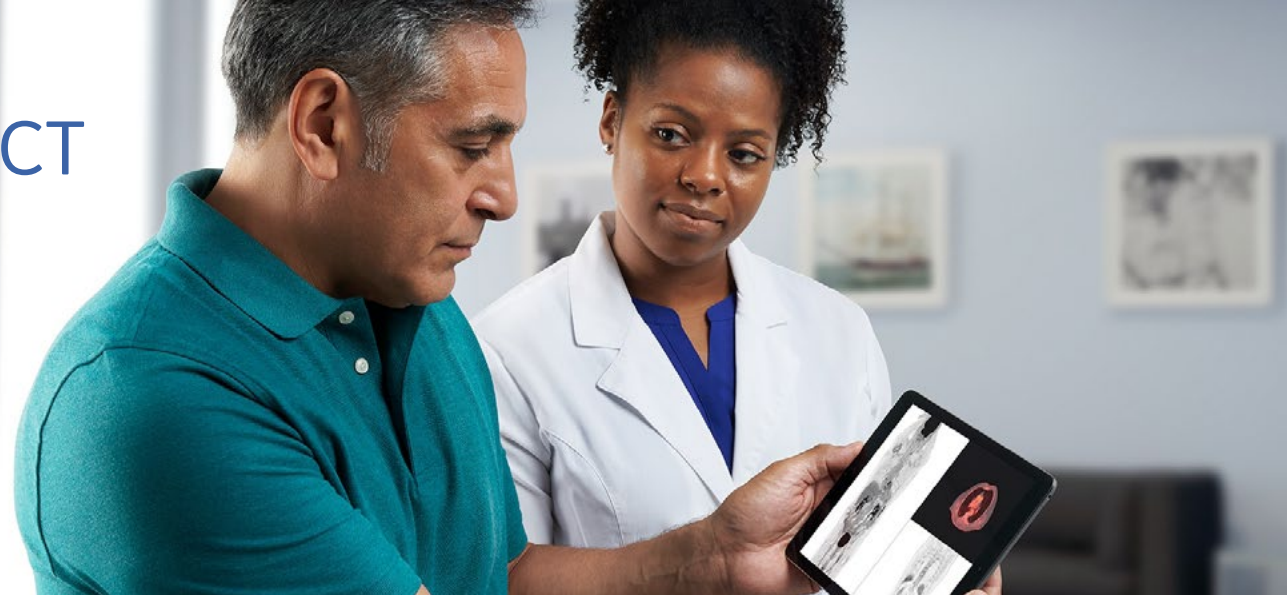
Improved accuracy, streamlined workflows

Our end-to-end deep learning solution features fully automatic processing and generates synthetic CT scans with sub-millimeter precision in less than five minutes. The system also creates fiducial markers on the synthetic CT image for position verification.

This single-sequence approach for soft tissue treatment planning offers the added benefit of improving clinical workflows. As a stand-alone synthetic CT system for certain types of soft tissue cancer, it eliminates the need for a second CT scan and resulting multimodal image registration.



1. MRI Planner Software is CE Marked in Europe and 510(k) pending with the U.S. FDA. Not available in all markets.



GE Healthcare's Molecular Imaging business is built on 30 years of partnerships with healthcare providers across the globe, resulting in the Discovery MI and Discovery IQ scanners – the world's most trusted PET/CT platforms.

At the core of our vision, we are focused on helping you to reduce the time/cost to get to an answer, to get to the right answer and to eliminate the variability that can exist across a nuclear medicine department.



Sensitivity

GE Healthcare's PET/CT systems have always had the highest true/NEMA sensitivity in the market and this is a specific design principle for our business. Sensitivity can have a significant impact on the time a patient is on the scanner, the dose given to a patient and the image quality/small lesion detectability and we see a path to dramatically increase the sensitivity.



Quantitative accuracy

Second is quantitative accuracy where GE was first to market with Q.Clear with a 2x improvement in quantitative accuracy and IQ. Accurate quantitation can aid in diagnostic confidence, treatment selection and treatment monitoring and we believe will continue to be of critical importance for patient quality of care/life, healthcare system cost and new tracers/expansion into theranostics. In the future we see a way to continue driving Q.Clear as the standard of care in PET imaging, optimized for all applications in routine workflow.



Motion management

Third is motion management, where GE was again first to market with a solution called MotionFree, helping you to automatically detect and compensate for motion so you see more clearly in your routine workflow. In the future we see applications that can continue to eliminate motion with the expansion to neuro and cardiac imaging



Scalability

We invest in platforms that will help protect your investment over time, enabling you to upgrade hardware and software to have a system that can grow alongside your department's growth. Today you can upgrade from 3 to 5 rings across our Discovery MI and IQ platforms. And in the future we see further upgradability across many dimensions of a PET/CT scanner.

We believe scalability, a hallmark of GE Healthcare PET/CT systems, will be even more important in the coming decade with the potential for many new tracers and advanced clinical applications that will require capacity in your PET/CT imaging department.



CT Solutions

Today we have been able to leverage the ideal CT tools needed in a PET/CT diagnosis from the market leading Revolution family of CT scanners and tomorrow we see the flow of new AI-based technologies in CT to PET/CT as well as new business models available in CT today to help ensure your system is always up to date flowing to PET/CT.

Each of these five areas plays a key role in addressing the biggest challenges faced in molecular medicine, and impacts Radiation Therapy planning by enabling the delivery of precise, personalized care.



Discovery MI Gen 2

The Discovery MI Gen 2 is a premium PET/CT that provides you with the tools you need to discover all there is to know about a patient's condition and help plan the most effective Radiation Therapy treatment for that individual. At the same time, it is designed to bring flexibility to your RT guidance practice by also efficiently operating as a standalone diagnostic CT.

This second generation of the world's first digital PET/CT reveals even more about discovering the patient's condition than its industry-transforming predecessor. The Discovery MI Gen 2's combination of advanced PET digital detection, increased sensitivity, outstanding motion correction, and fully converging reconstruction for improved quantitation – combined with advanced CT empowered by True Fidelity – transform it into a vitally important tool for your Radiation Therapy planning practice.

Discovery MI Gen 2 features include:

- **An optical cover and EMC shielding create a light-tight enclosure that reduces outside noise**
- **The small lutetium-based scintillator crystal array is wrapped with Enhanced Spectral Reflectors to optimize light collection for improved sensitivity and resolution**
- **Silicon Photomultiplier block design with ASIC provide excellent timing and energy resolutions as well as Digital Compton Recovery with no resolution trade-off**
- **A high thermal conductive pad extracts heat from the detector to improve stability**
- **A thermal base plate provides mechanical support for positioning and alignment**



PET Digital Detection

The innovative technology layered within the LightBurst Digital Detector allows you to see more than ever before by delivering a scalable FOV that ranges between 15 cm FOV up to an impressive 30 cm of digital detection coverage¹. Compared to analog ToF technology, the Discovery MI Gen 2's digital detection results in:

- **Exceptional sensitivity**
- **Reduced scan times, or**
- **Lower required injected dose levels**



PET Sensitivity

Discovery MI Gen 2 is engineered to accept three additional rows of LightBurst Digital Detectors to provide up to 30 cm of coverage¹ with the goal of providing a 60% increase in NECR¹ and an exceptionally high system sensitivity that reaches 30 cps/kBq¹.

NECR powers the system by detecting true events and reducing noise. With NECR as high as 456kcps, and sensitivity as high as 30cps/kBq, the Discovery MI Gen 2 delivers:

- **Improved contrast to noise ratio**
- **Enhanced lesion detectability**
- **Decreased scan time or injected dose**



Diagnostic CT

The integration of the Revolution™ EVO Gen 3 CT brings the precision imaging of diagnostic CT to digital PET.

- **See details as small as 0.28 mm with the enhanced spatial resolution of the Clarity Imaging Chain**
- **Virtually eliminate the streaks and shadows of metal artifacts with Smart MAR**
- **Generate preferred-looking image textures with the deep-learning-based TrueFidelity™ reconstruction engine**



Discovery MI DR

The Discovery MI DR is a premium PET/CT that provides you with the tools you need to discover everything there is to know about a patient's condition and help plan that patient's most effective Radiation Therapy treatment. At the same time, it is designed to bring flexibility to your RT guidance practice by also efficiently operating as a standalone diagnostic CT.



Digital Detection Ready PET

The Discovery MI DR is a digital detection ready platform that is prepared to meet the demands of today, yet remain poised to help grow with your practice to meet future needs. To achieve that goal, the Discovery MI DR comes equipped with LightBurst LBS detectors designed for both outstanding speed and efficiency, and can be upgraded to LightBurst Digital Detectors as needed.



High PET Sensitivity

A 25 mm Lutetium-based scintillator gives the Discovery MI DR high sensitivity to capture the greatest number of counts.



Diagnostic CT

The Discovery MI DR integrates the diagnostic CT innovations from the Revolution™ EVO to meet the rigorous imaging demands required for precise RT simulation.

- **Virtually eliminate the streaks and shadows of metal artifacts with Smart MAR**
- **See details as small as 0.28 mm with the enhanced spatial resolution of the Clarity Imaging Chain**
- **Get up to a 2x increase in spatial resolution when you combine Clarity Imaging Chain with the Performix™ 40 Plus tube, our proprietary HiLight CT detector, and the optional ASiR-V™ reconstruction tool**



Quantitation and Reconstruction

Discovery MI DR is a remarkably versatile system that can help you accurately determine patient response to Radiation Therapy treatment. It effectively balances the need for accurate quantification without sacrificing image quality. Using our innovative ASiR-V™ reconstruction method, the Discovery MI DR can reduce CT dose by up to 82% at the same image quality in routine imaging across applications^{3,4}.



Discovery IQ

The Discovery IQ PET/CT provides you with the tools you need to discover all there is to know about a patient's condition and help plan the most effective Radiation Therapy treatment for that individual. It is also designed to bring flexibility to your RT guidance practice by efficiently operating as a standalone diagnostic CT as well.

Discovery™ IQ is the most widely utilized and trusted PET/CT system among clinicians across the globe¹. It was designed and engineered to be a scalable, high-performance diagnostic system with the capabilities to produce exceptional image quality while using lower dosages. Most importantly, it was built on a platform intended to meet and exceed your clinical needs as your practice grows. To continue that momentum, we're introducing Discovery IQ Gen 2 – the next generation in PET/CT performance dedicated to improving your clinical outcomes, productivity and profitability.



Artifacts

Among its industry-leading capabilities, Discovery IQ Gen 2 also features Smart MAR, which helps reduce metal artifacts, provides significant reduction of streaks and shadows to save time spent correcting images. This combination is imaging in the highest sense, using lower dosages and faster acquisition times to acquire high-clarity images like no other PET/CT system.



Diagnostic CT

Discovery IQ Gen 2 comes with the LightBurst PET innovative detector technology and is paired with the Optima™ CT540, which has the equivalent speed of a 50-slice CT with IQE 1.75 pitch booster⁴ to meet your imaging needs.



Quantitation and Reconstruction

With Discovery IQ Gen 2, your quantitation is no longer limited by the technologies used to produce it. Compared to conventional methods, Discovery IQ Gen 2 uses more accurate and consistent quantitative tools like Q.Clear to support your treatment with precise data points. With Q.Clear, your SUV measurement becomes more than a number; it becomes a tool for trusted clinical discovery, diagnosis, and treatment assessment.

- **Accurately determining patient response to Radiation Therapy treatment is one of the toughest, yet most important challenges faced in Radiation Oncology. For the first time in PET reconstruction, Q.Clear can:**
- **Eliminate the tradeoff between outstanding image quality and quantitative SUV accuracy**
- **Provide up to two times improvement in both PET quantitation accuracy (SUV mean) and image quality (SNR)**
- **Deliver fast and efficient readings for confident diagnosis and precise treatment response assessment**



Motion Correction

MotionFree is the first-ever digital respiratory motion management solution that completely eliminates the need for a gating device. Because it's always on, MotionFree continuously monitors respiratory motion in every PET/CT procedure. When it detects an anomaly, it automatically modifies the scan and integrates what it learns into the final image in real time. The result is up to a 30% improvement in quantitation accuracy (SUV mean) compared to non-processed (STATIC, no motion correction) data².



Detection

Discovery IQ Gen 2 comes with the LightBurst PET Detector that reduces scan times and dose amounts in half³. Combined with the next-generation improvements in sensitivity, motion correction, and quantitation, you can expect:

- **Increased image clarity**
- **Reduced images acquisition times**
- **Greater confidence in identifying smaller lesions**



High PET Sensitivity

Discovery IQ Gen 2 reinforces what the highest sensitivity can do for your image quality. Built with a combination of the highest NEMA sensitivity¹, the highest clinical NECR² and outstanding field-of-view coverage, this PET/CT system has exceptional small lesion detectability.

1. Based on PET/CT sales and installation industry data from 2014-2018.

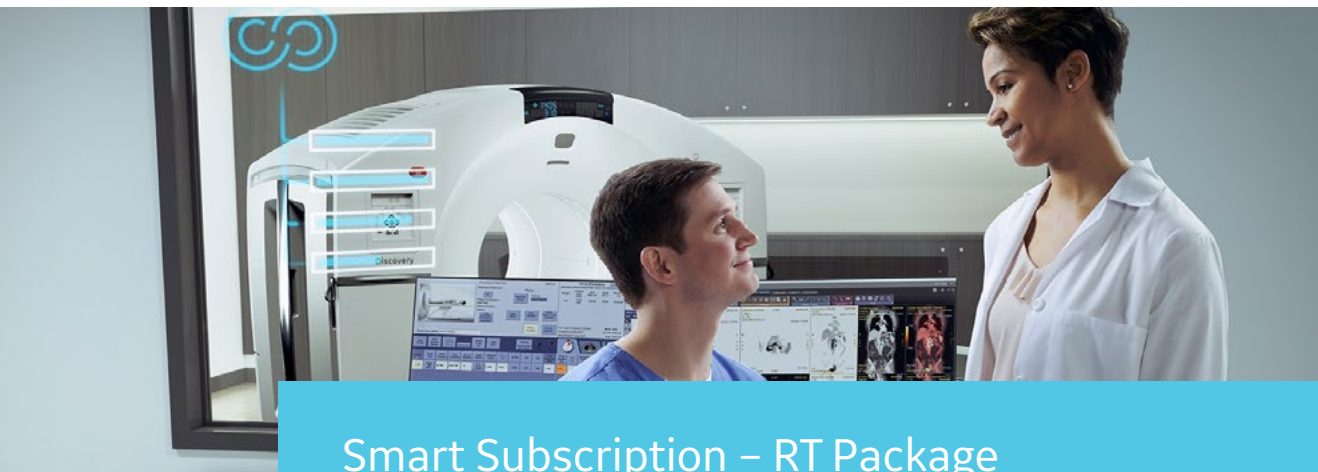
2. GE Discovery IQ 5-Ring has the highest NEMA sensitivity compared to market leading PET/CT equipment. Market leading PET/CT equipment is defined based on IMV's Medical Information Division's IMV 2019 report as the manufacturers representing more than 90% of the US Installed Base.

3. Comparing Discovery IQ Gen 2 5-Ring to Discovery IQ Gen 2 3-Ring

4. IQ Enhancement (IQE) may reduce helical artifacts which are important for image quality of thin-slice helical scans. CT scanners with this feature can accelerate its helical pitch up to 70% (e.g. 0.562 to 1.75, @ 16 slice) when acquiring the same helical artifact level compared with the same scanner with IQ Enhance disabled. This coverage speed is equivalent to that of a 50-slice wider detector CT scanner at same table speed.

Digital Solutions

RT therapy planning and guidance has always been a tremendously complex and time-consuming process. GE Healthcare has developed – along with select, industry-leading partners – a wide variety of digital solutions under the Edison brand, designed to speed that process, expand your ability to provide highly precise, personalized care, and improve patient outcomes. With these tools at your disposal, you will stay at the leading edge of multimodality RT capabilities and provide your patients with the hope they need during this difficult time.



Smart Subscription – RT Package

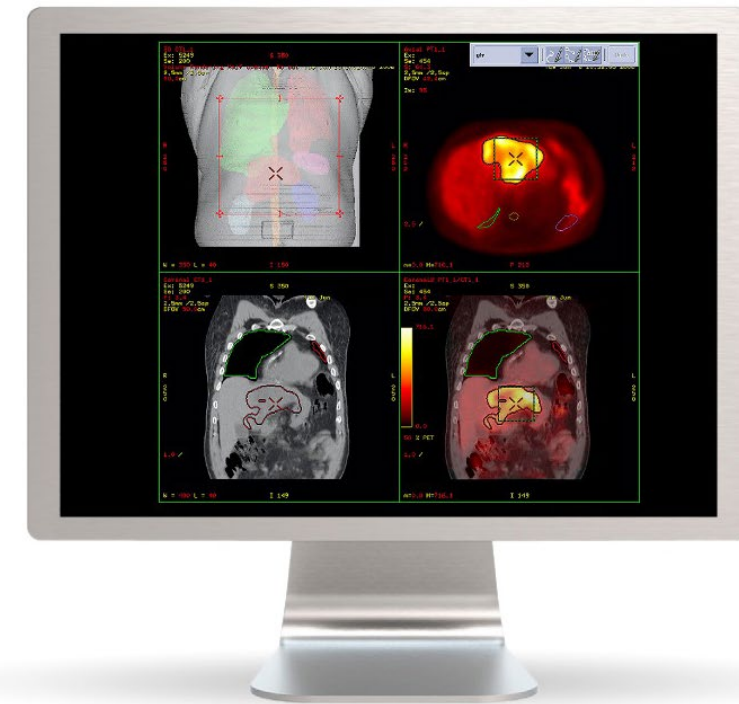
Imagine a CT that keeps getting better. Introducing Smart Subscription, the industry's first subscription-based software upgrade service for CT applications.

Smart Subscription eliminates the inefficient “buy, use and replace” purchasing model that results from being locked into the capabilities your CT had when you first took delivery of it – even after new capabilities become available.

Smart Subscription overcomes this software freeze by automatically updating software overnight, making it possible to keep your entire fleet of CT systems up to date with a single subscription. With Smart Subscription, you get:

- **A CT that improves its performance over time**
- **The same CT capabilities at all your sites**
- **Only one set of protocols to learn and master**

Smart Subscription includes a broad range of application packages across many different imaging services, including a RT Package which enables you to further streamline your Radiation Therapy planning over time.



Advantage SIM MD

Advantage SIM MD is an efficient, highly accurate, and fully integrated virtual simulation software suite that improves and streamlines multimodality Radiation Therapy treatment planning.

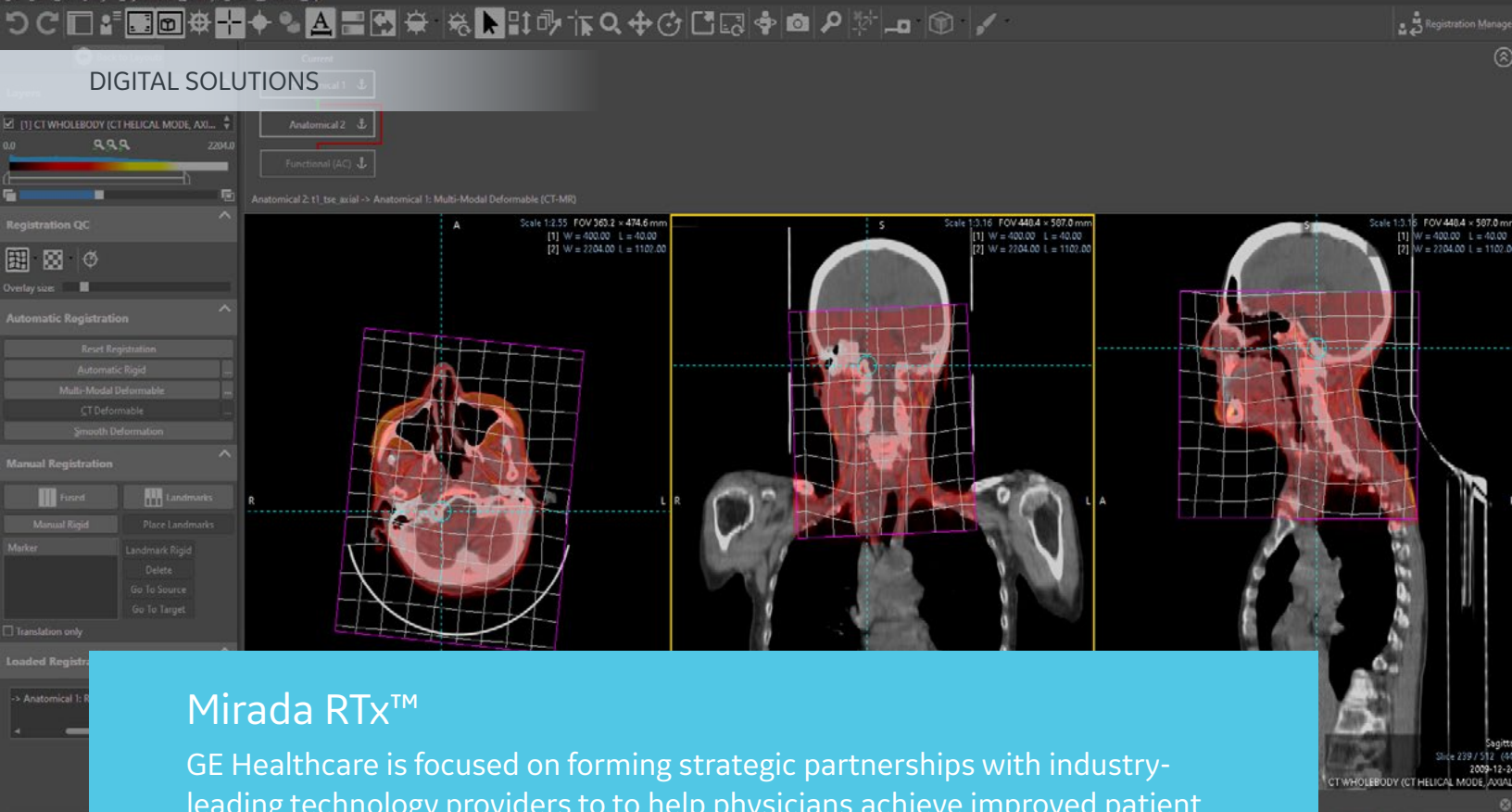
It starts with the contouring of at-risk organs using multiple datasets showing anatomical, functional, and metabolic or respiratory-induced motion information within an intuitive work environment. Advantage SIM MD offers:

- **Automated and manual tools which enhance productivity and accuracy**
- **Isocenter marking and beam planning tools to enable quick and precise patient positioning, plan setup, and efficient palliative and emergency planning**

Advantage Sim MD prepares geometric and anatomical data relating to proposed external beam Radiation Therapy treatment prior to dosimetry planning. Anatomical volumes can be defined automatically or manually in three dimensions using a set of CT images acquired with the patient in the treatment position. The definition of anatomical volumes may be assisted by additional CT, MR or PET studies that have been co-registered with the planning CT scan.

Other Advantage SIM MD, benefits include:

- **Efficient multimodality (CT, MR, PET) workflows offer additional information for accurate treatment plans from a single desktop**
- **Innovative 4D CT and 4D PET/CT workflow**
- **Synchronized and fused 4D PET/CT phase movie**
- **A suite of automated and semi-automated CT-based organ segmentation tools**
- **DICOM-RT and IHE-RO compliance for seamless interoperability**



Mirada RTx™

GE Healthcare is focused on forming strategic partnerships with industry-leading technology providers to help physicians achieve improved patient outcomes and provide increased access to care. Our Edison™ ecosystem is a perfect example of this effort.

Whether it's strengthening the capabilities of AI technologies, or the integration of advanced image registration and visualization software like Mirada RTx™, we are always looking to improve the quality of the precision care you deliver.

Mirada RTx integrates seamlessly into the Advantage Workstation (AW) and AW Server to provide precision confidence for Radiation Therapy workflows and enhance your treatment planning experience. RTx is a trusted, accurate, and comprehensive image registration and visualization software package for Radiation Therapy professionals.

Mirada's solution includes:

- **Image registration (rigid and modality-specific deformable (DIR), registration QA tools)**
- **Multimodality contouring (OAR, target volume, contouring tools including contouring on oblique datasets)**
- **Adaptive (recontouring, dose deformation, dose summation, DVH)**
- **4D image support and ITV**
- **MR-only workflows**
- **Stereotactic Radiotherapy (SABR, SRS, SBRT)**
- **Proton Therapy**



Image Registration

RTx provides advanced workflows for Radiation Therapy experts looking for all the benefits of a robust image registration workflow solution without being tied to a costly TPS. Mirada's registration algorithm is unique and efficient as workflows can be tailored to hospital preferences.



Target Volume Contouring

Mirada's applications provide radical time savings through patented workflows optimized for the contouring process. Image fusion allows you to perform contouring on multiple image modalities simultaneously, taking advantage of whichever provides the most useful information. Additionally, contouring can occur in any plane on any modality, whether oblique or aligned with the patient axes, and takes place in real-time across all modalities. Automated and semi-automated 2D, 3D, and 4D tools for contouring remove the need to draw every contour by hand.



Adaptive Replanning & Assessment

The decision to adapt and replan a patient's treatment can be time-consuming, and with a trend towards hypofractionation, adaptation is a must-have workflow. With the single-click propagation of structures and dose from a planning CT to any number of day-of-treatment CBCTs, RTx makes your assessment of treatment progress significantly quicker. In addition to registration and propagation, built-in response assessment tracking provides a quantified analysis of dose coverage to support response-based plan adaptation and research protocols.



Dose Deformation and Summation

Assessing dose plans across time-points for adaptive therapy or retreatment planning requires a registration algorithm that offers anatomically plausible deformation in low-contrast regions. Mirada's deformable image registration engine uses a highly optimized derivative of the optic flow approach which is stable in such regions. RTx offers the quality control tools required to assess the deformation, ensuring that the quality of the deformation is suitable for dose summation.

NOT COMMERCIALY AVAILABLE IN ALL REGIONS

Mirada RTx™ is a registered trademark of Mirada Medical Limited

GE Services



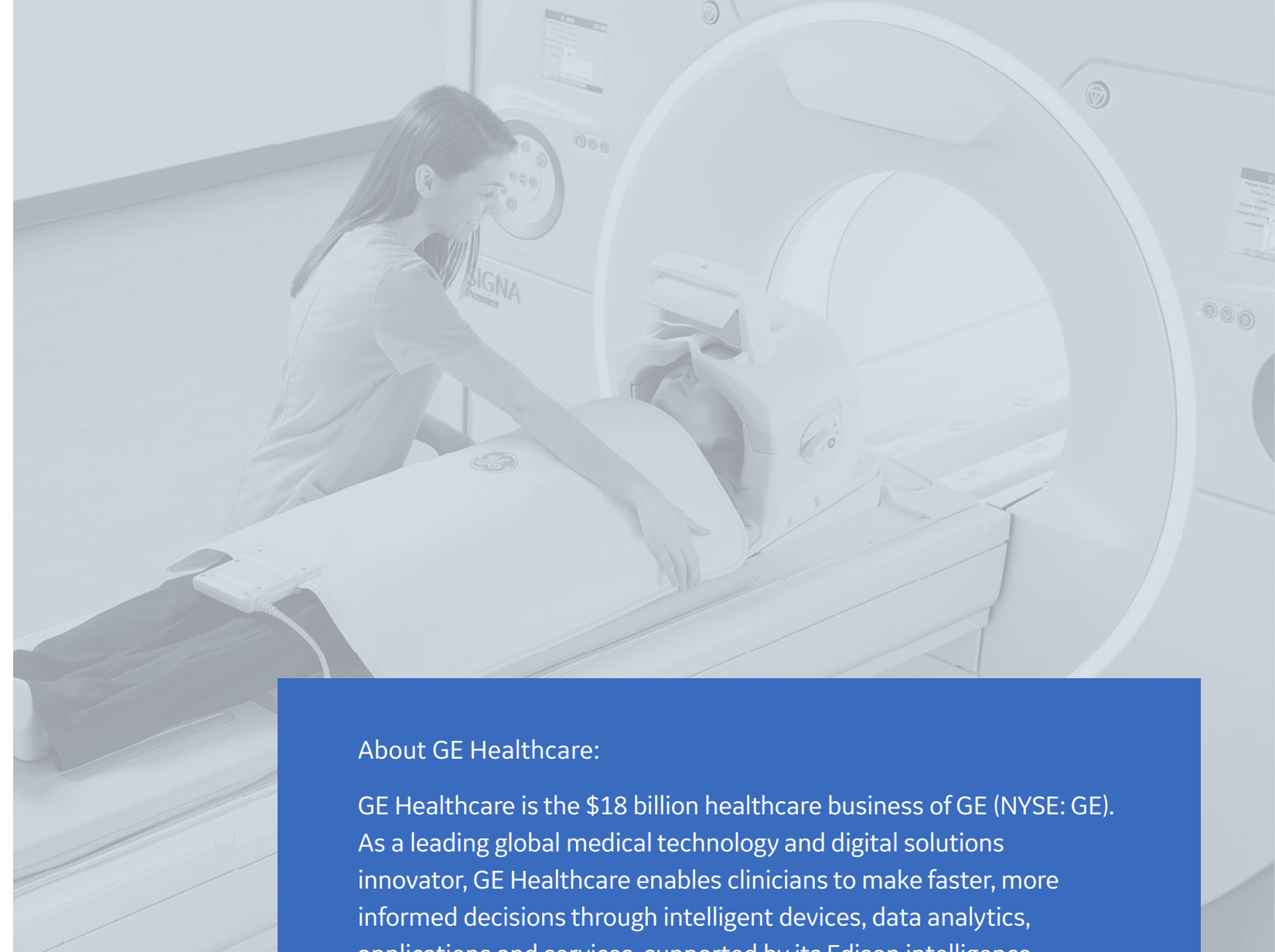
We understand that our customers require a level of service that surpasses the idea of “break-fix.” The goal of the services we offer is to provide you with peace of mind regarding the efficient operation of your practice. To accomplish this goal, we focus our efforts in the following key areas:

Expertise – Confidently rely on highly trained experts who can provide 24-hour troubleshooting and repair, with access to a strategic, global network of parts warehouses

Life Cycle Management – Continuity™ helps keep your systems current with ongoing upgrades already budgeted in your contract

Digital Solutions – Data-driven insights to increase asset availability, expedite repairs, ensure compliance, optimize utilization and reduce operating costs

Education & Training – Customizable clinical applications training and continuing education programs (on-site, remote, and online)



About GE Healthcare:

GE Healthcare is the \$18 billion healthcare business of GE (NYSE: GE). 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.

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