

GE Healthcare

# Discovery RT

With MaxFOV Technology

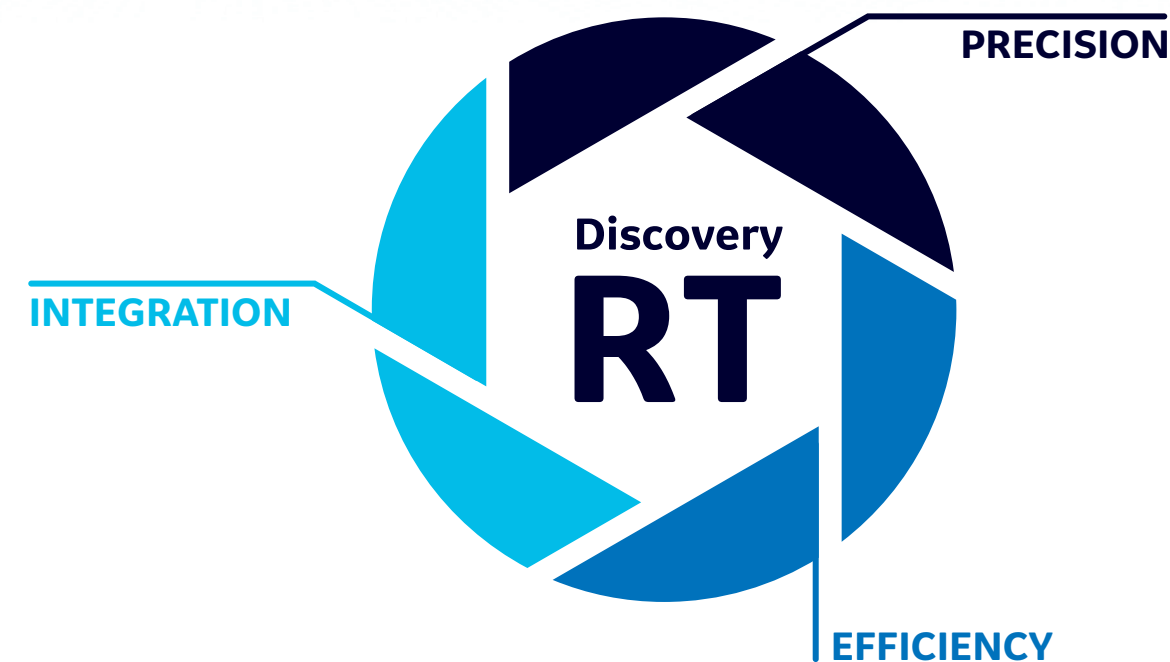
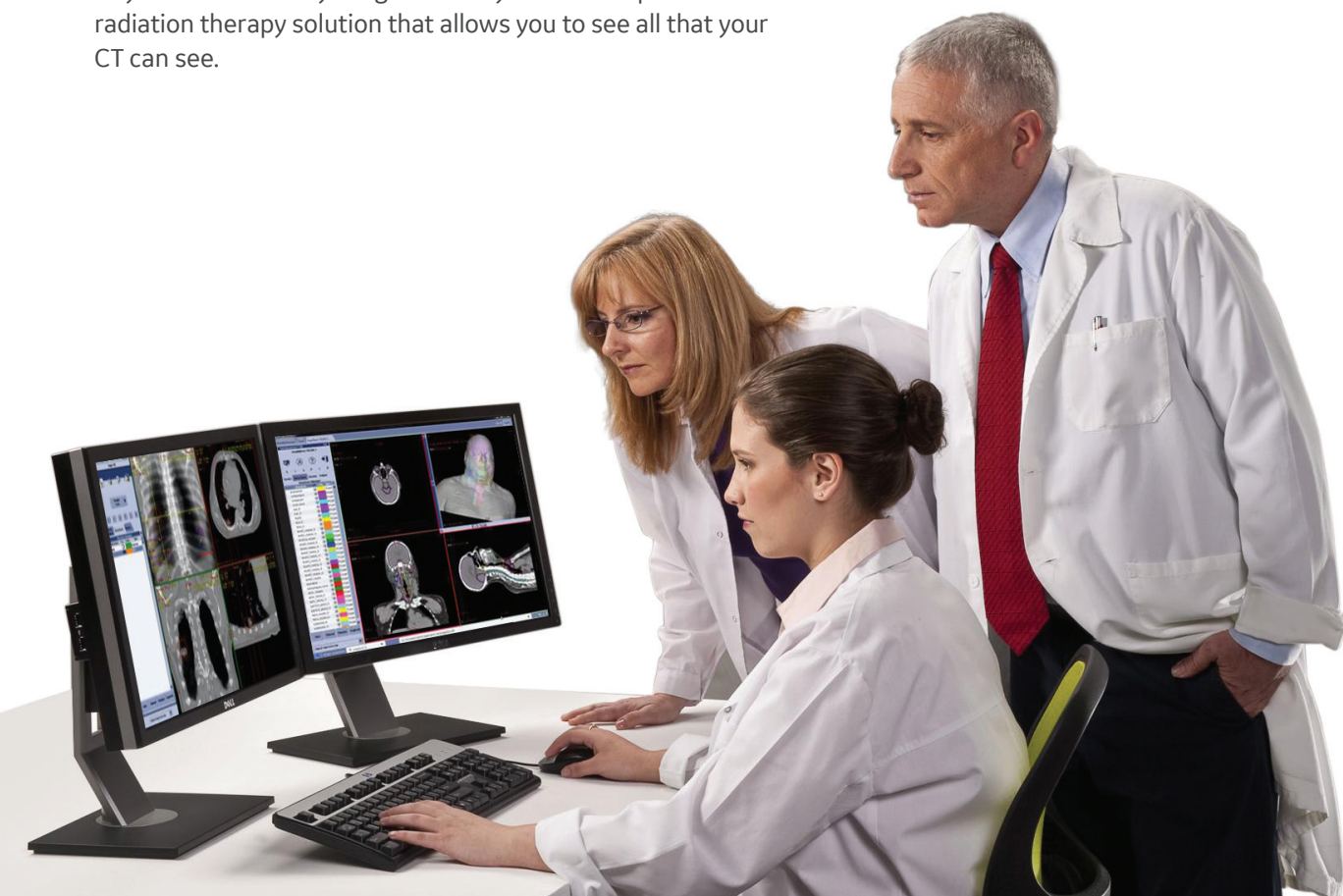




**See all Discovery RT can see**

# See Everything. Miss Nothing.

Radiation therapy planning technologies are interconnected. In the past, enhancements to one feature could only be made by impacting another. You had to choose between a wide bore or a high quality image. Discovery™ RT changes all of that with an all-encompassing approach to radiation therapy planning. You get a streamlined workflow and sub-millimetric images that are effectively free of motion and metal artifacts. And it allows virtually complete imaging of the entire bore so you don't miss anything. Discovery RT is a comprehensive radiation therapy solution that allows you to see all that your CT can see.





# Every Edge, Every Contour, Every Image

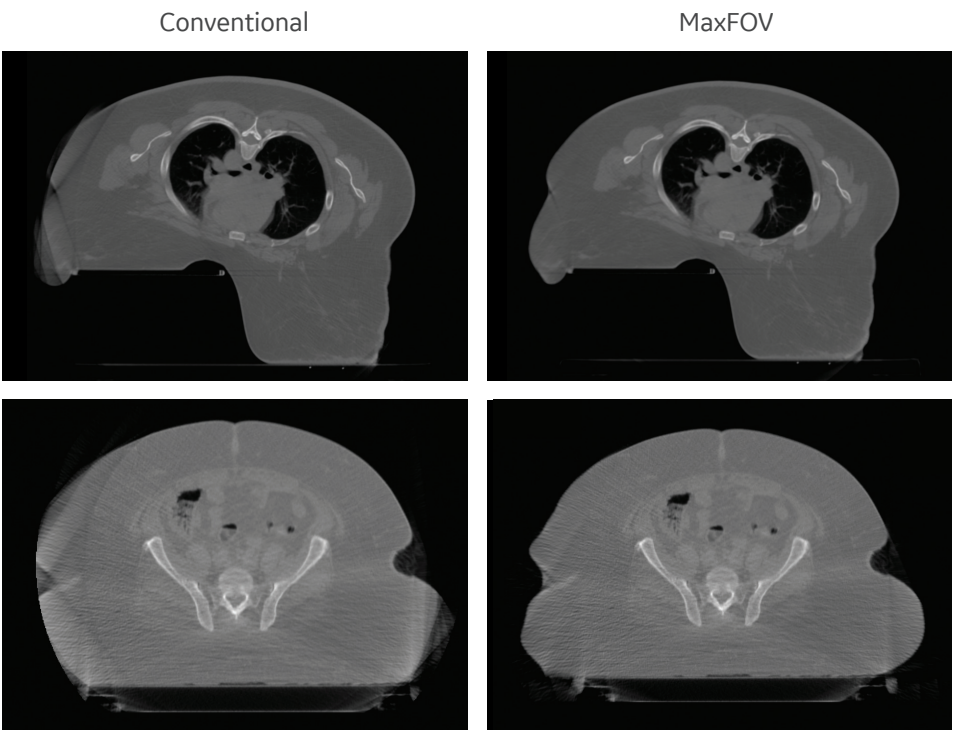
For true precision imaging, you need to see all that your CT can see for every patient in any position and only the right combination of technology can achieve it. Max Field-of-View (MaxFOV) provides edge-to-edge acquisition with virtually no blind spots, delivering CT images with specified spatial and density values, an industry first. And MicroVoxel thin slice reconstruction enables precise contours. Combined with a high power x-ray source, it's the perfect match for outstanding quality images with excellent contrast.

## MaxFOV

A full view, edge-to-edge, with specified accuracy to help increase your confidence

The unique needs of radiation oncology make it important to have image data across the entire bore of the CT simulator. Patients are often positioned off-center to accommodate positioning accessories and dose calculations require data from the entire physical anatomy. Until now, the architecture of the CT tube and detector had limited simulation technology, creating a compromise between efficiency and precision.

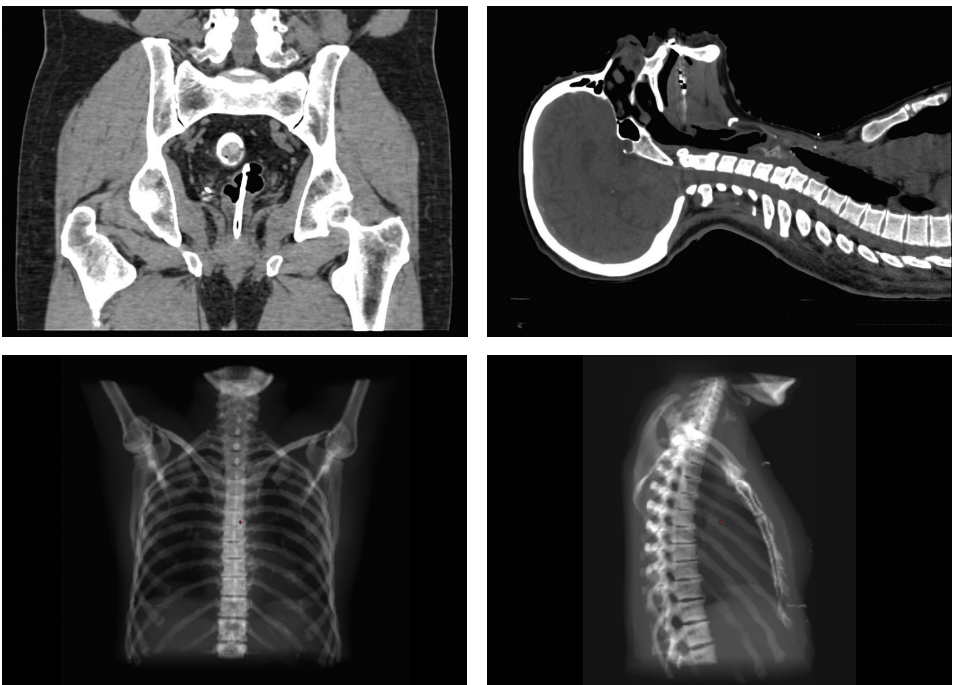
MaxFOV<sup>1</sup> uses GE Healthcare's proprietary algorithms to leverage collected data that traditional algorithms ignore to essentially build a complete view of everything within the CT's bore, edge-to-edge, so you won't miss anything.



## MicroVoxel

Resolve smaller structures, enable accurate contours, and deliver DRRs with outstanding resolution and image clarity

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.





## Outsmart Metal and Motion

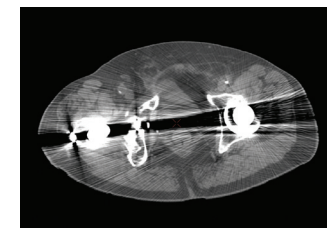
Work with smart applications that minimizes two of your workflow's biggest challenges: motion and metal. Smart Metal Artifact Reduction reduces metal artifacts in a single scan and automatically generates both corrected and uncorrected images for quick comparisons. And Smart Deviceless 4D measures the effects of motion using image data instead of an external device. Together, they allow you to see reduced scan setup times and consistent, protocol-driven workflows.

## Smart Metal Artifact Reduction

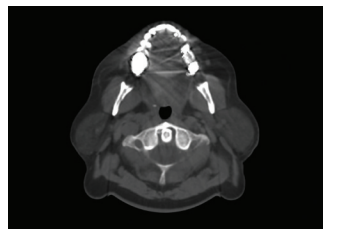
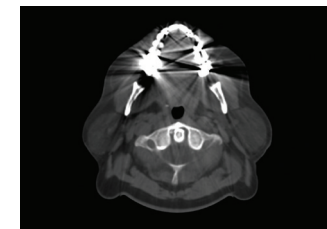
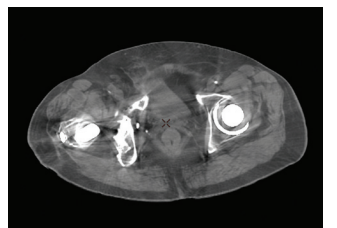
**Significant reduction of streaks and shadows to save your time correcting images**

Smart MAR is designed to reduce artifacts of high density materials, including orthopedic implants, dental fillings and other metal in the body. Our metal artifact correction technology is based on raw data, enabling you to reduce artifacts caused by both photon starvation and beam hardening.

Without Smart MAR



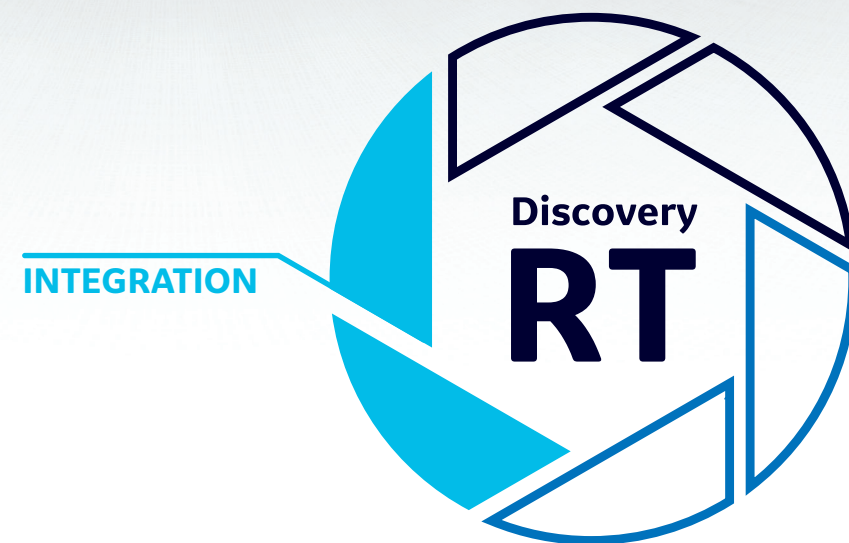
With Smart MAR



## Smart Deviceless 4D

**Respiratory gating without an external device to improve your efficiency**

By measuring respiratory motion directly from the patient's chest, this breakthrough innovation allows you to create 4D images without the use of an external monitoring device. By removing the external gating system, D4D helps you simplify the workflow, improve the patient's comfort and reduce maintenance.



## AdvantageSIM™ MD and AW Server

**Automated tools for advanced planning from your work space. Anywhere from any PC.**

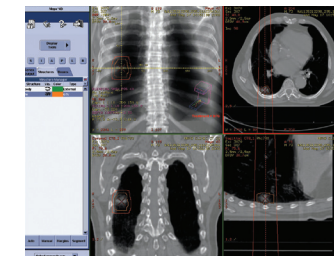
Sophisticated yet simple, this simulation application produces precise data for accurate localization, beam placement and isocenter marking. Combined with GE's image fusion package, you have the complete suite of easy-to-use tools for multi-modality and multi-phase simulation. Powered

by GE's AW Server technology, we offer a trio of powerful tools for your radiation oncology workflow including AdvantageSim MD, Advantage 4D™ and automatic image fusion. The AW Server gives you access to our complete suite of oncology applications from virtually any PC.



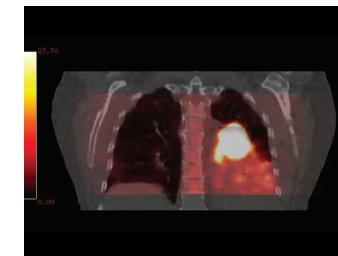
### Easy isocenter marking

Quickly perform isocenter marking in as few as 10 clicks



### Effortless 4D review and simulation

Define moving targets through simple 4D contouring and easy review for tumor identification



### Unlimited flexibility to utilize multi-modality data

Automatically import unlimited CT, PET/CT and MR image sets into a side-by-side or fused view layout



### Automated tools for workflow efficiency and simplicity

In addition to routine simulation tools, advanced features such as autosegmentation and replanning streamline the workflow and reduce the need for additional workstations

## Enhance What Your CT Sees

AdvantageSim MD virtual simulation software enhances what you image with the latest in simulation and localization technology and makes it available to your other clinical resources. You can load and display data sets from multiple modalities, integrate 4D data into the planning process and fuse multiple volumetric acquisitions together. And because it is on the AW Server, you can access it outside of the workstation and easily share all that your CT sees with your patient's care team.



<sup>1</sup>See GE Specifications for Test Protocols.

## Imagination at work

Product may not be available in all countries and regions.  
Full product technical specification is available upon request.

Contact a GE Healthcare Representative for more information.  
Please visit [www.gehealthcare.com/promotional-locations](http://www.gehealthcare.com/promotional-locations).

Data subject to change

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