





Overall, a top performer

Every day you look for ways to accommodate an increasing load of patient referrals with the same number of department resources. It's a constant balancing act that places extra emphasis on the overall efficiency of your entire CT workflow.

For you, the final CT image is only part of the story. How you get to that image is just as integral to the quality of your patient care as the images themselves.

This philosophy is at the foundation of Revolution™ Maxima. We evaluated every angle of the CT workflow and then went to work simplifying, streamlining, automating and applying advanced technologies like AI wherever possible with the goal of transforming the entire CT experience.

It's called Revolution Maxima because it's the culmination of all of these efficiencies. It's a powerful, high-performing and reliable CT designed to maximize every step of the CT workflow, from referral to report.





One-click, hands-free automation

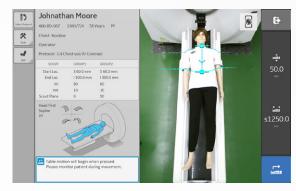
Revolution Maxima simplifies the entire patient setup process. Innovative auto centering technology is at the core of our improved scan experience, but it starts with related protocol recommendations. By comparing the exam description against a database of scan protocols, the system displays a short list of protocols to choose from. What used to take valuable time searching for the right protocol and then manually positioning the patient in the bore, can now be done with a quick selection and the simple click of a button.

Smart select



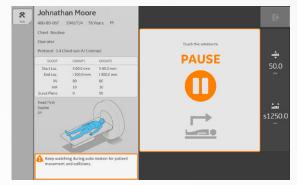
Quickly get to the appropriate protocol by choosing from a simple list of related protocols.

Auto center



By calculating the 3D center of the scan range, the system knows exactly how to align the table in the bore.

Click to position



With the click of a button, automatically position your patient at the start location of the scan.





It comes with everything you need

We wanted to provide you with one CT that comes with all of the capabilities essential to getting the right information at the right image quality across a diverse range of clinical needs. Built around our Clarity imaging chain, Revolution Maxima provides 0.28 mm³ spatial resolution and makes 40 mm imaging routine.

Our leading dose reduction software, ASiR-V™, is also available. This advanced noise and object modeling reconstruction software allows you to consistently image with up to 82 percent⁴ less dose compared to filtered back projection image reconstruction. Together, these core technologies provide you with everything you need to get to the right diagnosis, the first time, at the lowest dose possible.



40 mm imaging



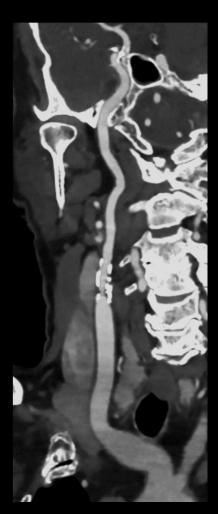
0.28 mm spatial resolution



Up to 82 percent lower dose



High resolution cardiac imaging of left coronary artery using 1024x1024 reconstruction matrix



Clear visualization of right carotid stenosis with calcified plaque



High resolution runoff angiography of left femoral occlusion with clear visualization of small arteries



High resolution, high image quality, low dose chest abdomen pelvis imaging



Findings you can clearly dictate

Your CT experience doesn't end with the generation of a high-quality image. You also need intelligent applications that continue to support you once those images reach the reading room. We've developed a collection of smart applications for cardiac, stroke, oncology and metal artifacts that do just that.



Smart MAR

Single acquisition metal artifact reduction.



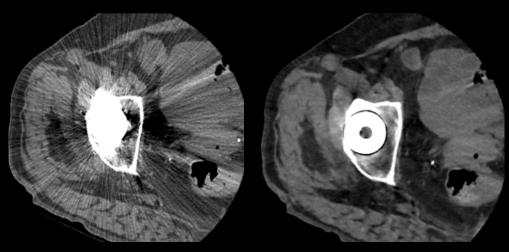
Smart Cardiac

Set up complex cardiac procedures quickly, reliably and repeatedly.



Smart Stroke

Perform stroke assessment scans with perfusion shuttle technology and assess patient status quickly and accurately.



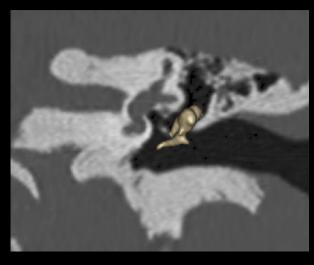
Smart MAR coupled with high resolution imaging to reduce streak artifacts maintaining structural details



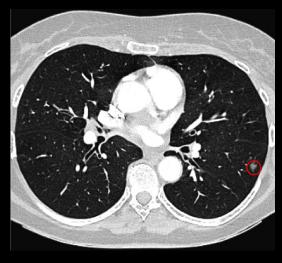
Detailed coronal view of shoulder joint



Improved contrast resolution for better differentiation of gray/white matter



Outstanding visualization of small structures in petrus bone examination with high resolution kernel and 1024x1024 matrix



Lung nodule well depicted using high resolution reconstruction matrix

One great image after another

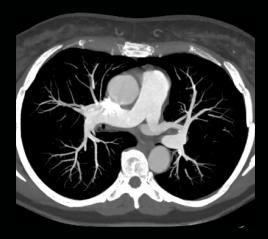
Great imaging performance is more than just a beautiful clinical image. For high-throughput environments, how you get to the image is just as important as the image itself. And every step in the process matters. You need to consider how quickly a scan can be set up, how easily your applications can be applied during the scan and how effectively you can produce a report from the images you acquire. All of this goes into the great imaging performance you can expect with Revolution Maxima.



Complete detailed view of right arm vascularization



Sagittal reformat view of cervical spine

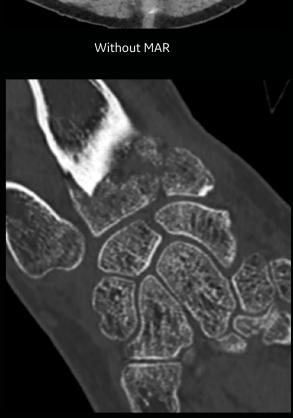


Pulmonary angiography with 80kV acquisition

Abdomen pelvis prostate MAR



Abdominal aorta 3D reconstruction on 37 BMI patient



Wrist fracture visualization on reformatted plan with high resolution imaging



With MAR



3D volume rendering of coronary tree



A CT that continuously works behind the scenes

When it comes to the operational and financial success of your imaging department, there is a lot your CT can do for you in the background using remote diagnostics, predictive analytics, cloud-based solutions and subscription-based services. Take Tube Watch as an example. Through a combination of artificial intelligence, machine learning and software analytics called Digital Twin technology it creates a customized, digital model of your tube, system and usage profile. Using that digital model, Tube Watch can predict when your tube is going to need to be replaced. This is just one of many ways Revolution Maxima is maximizing your capabilities.

Advanced Visualization

Elevate your CT imaging with our collection of advanced visualization applications that assist reading, automate post-processing and streamline imaging review.

☑ Tube Watch

Predict when your tube will fail three days in advance, so you can schedule a service call before it disrupts your schedule.

Standardize your protocols across all of your CT systems with this cloud-based protocol management solution that allows you to access and update your protocols through a single application.

☑ Imaging Insights

Collect and analyze system data to pinpoint operational inefficiencies, which we can use to help you target opportunities to streamline your operations.

OnWatch

Proactively screen key system metrics for anomalies and preemptively alert a remote engineer to either make a repair online or schedule a service call before it turns into a bigger problem.











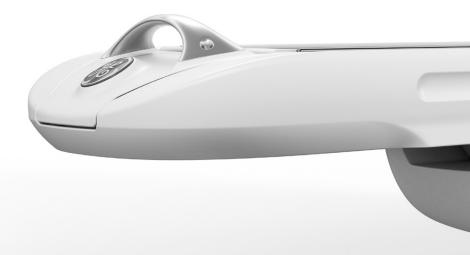




A CT that can do it all

As a high-performing imaging department, you don't need a range of CT options to pick and choose which capabilities you need. From scan setup, to image acquisition, to the final report, there is a lot that goes into high performance CT imaging. What you need is a system that can do it all.

Revolution Maxima provides innovative solutions for your entire CT experience from referral to report, including an incredible new way to automate patient positioning. Beyond that, it's a scalable, upgradable system that leaves the door open to grow with your practice.







GE Healthcare is a leading provider of medical imaging, monitoring, biomanufacturing, and cell and gene therapy technologies. GE Healthcare enables precision health in diagnostics, therapeutics and monitoring through intelligent devices, data analytics, applications and services. With over 100 years of experience and leadership in the healthcare industry and more than 50,000 employees globally, GE Healthcare helps healthcare providers, researchers and life sciences companies in their mission to improve outcomes for patients around the world. Follow us on Facebook, LinkedIn, Twitter and The Pulse for latest news, or visit our website www.gehealthcare.com for more information.

Imagination at work

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Not available for sale in all regions.

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- ¹ Kaasalainen, T., Palmu, K., Reijonen, V., & Kortesniemi, M. (2014). Effect of patient centering on patient dose and image noise in chest CT. American journal of roentgenology, 203(1), 123-130.
- ²Toth T, Ge Z, Daly MP. The influence of patient centering on CT dose and image noise. Med Phys 2007; 34:3093–3101.
- ³ Calculated based on MTF 4% value in X/Y. 4% MTF is measured under 120kv, 200mA, 1.0 sec gantry rotation and Edge Plus kernel.
- ⁴ 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.