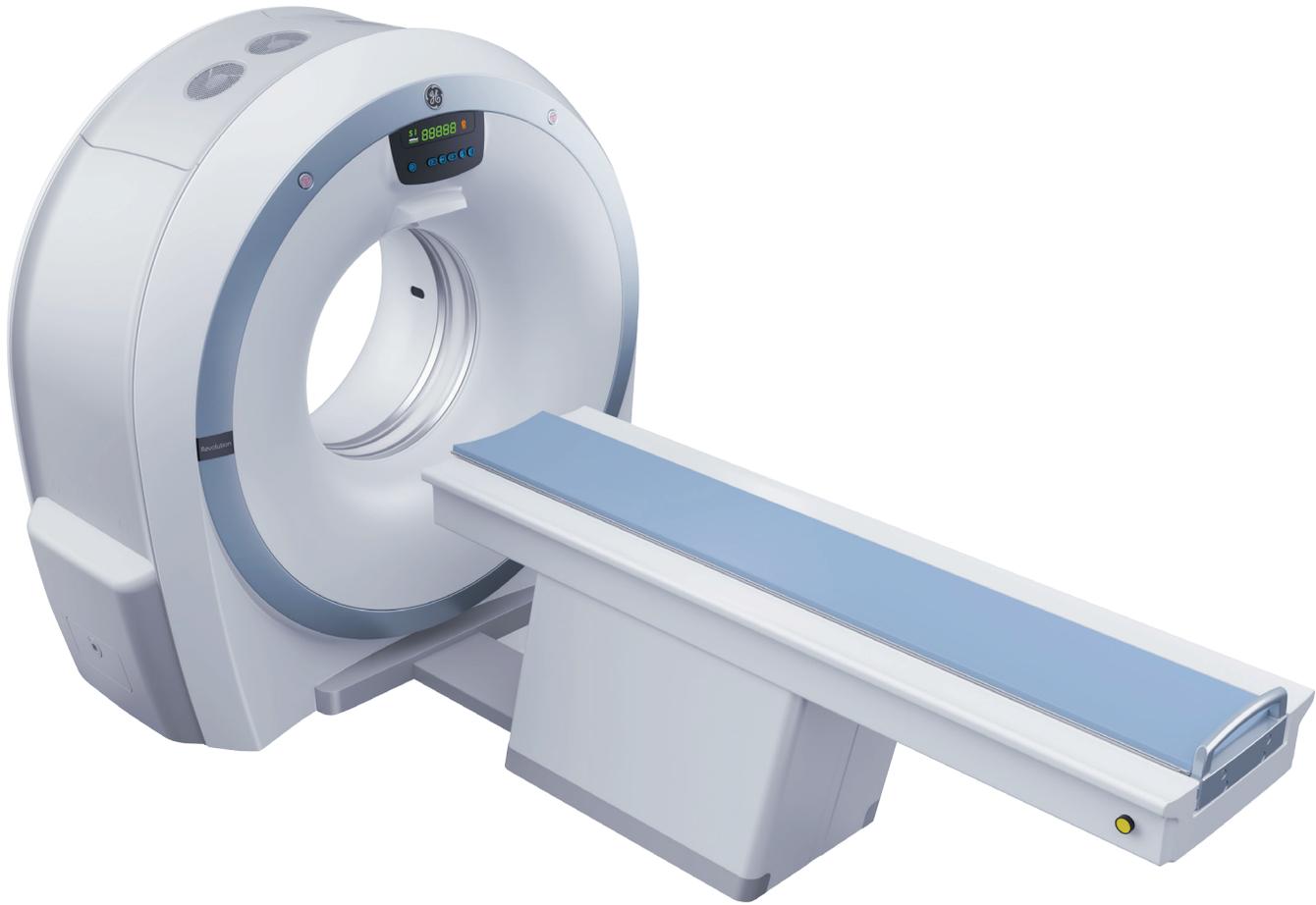
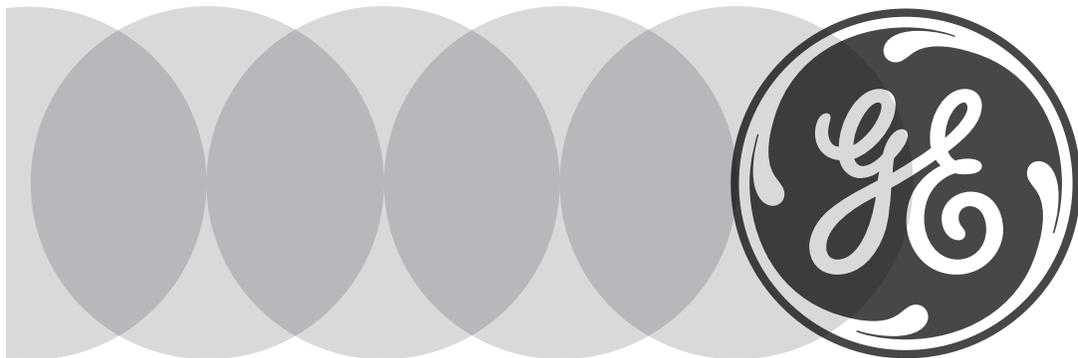


GE Healthcare



# Revolution ACTs ES

Your Aspirations. Realized.





# Revolution. Redefine what's possible with CT.

Millions of patients around the world are still waiting to receive the standard of care they need and in an affordable way. Healthcare providers are seeking better technology to help more patients and drive better outcomes.

Simple and fast, CT is arguably the most valuable diagnostic imaging tool in healthcare. Yet its capacity to improve patient health is far from tapped.

The Revolution™ family of CT scanners helps you redefine what's possible

with CT. Designed with your needs in mind, each Revolution product in the family is designed to deliver four key benefits: diagnostic confidence, patient care, financial performance and clinical excellence.

All revolutions start somewhere. Our revolution began with the Revolution CT system — designed from the ground up for pioneering the future of CT.

**Now comes Revolution ACTs.**

# Your Aspirations. Realized.

Healthcare today offers new opportunities for growth, and the quality of CT imaging services can make all the difference in what you're able to achieve.

## **A Revolutionary concept**

Revolution ACTs is designed not only as a product, but as a solution to help you provide better patient care — and provide access to more patients. It's the centerpiece of our commitment to help you achieve your CT imaging services aims.

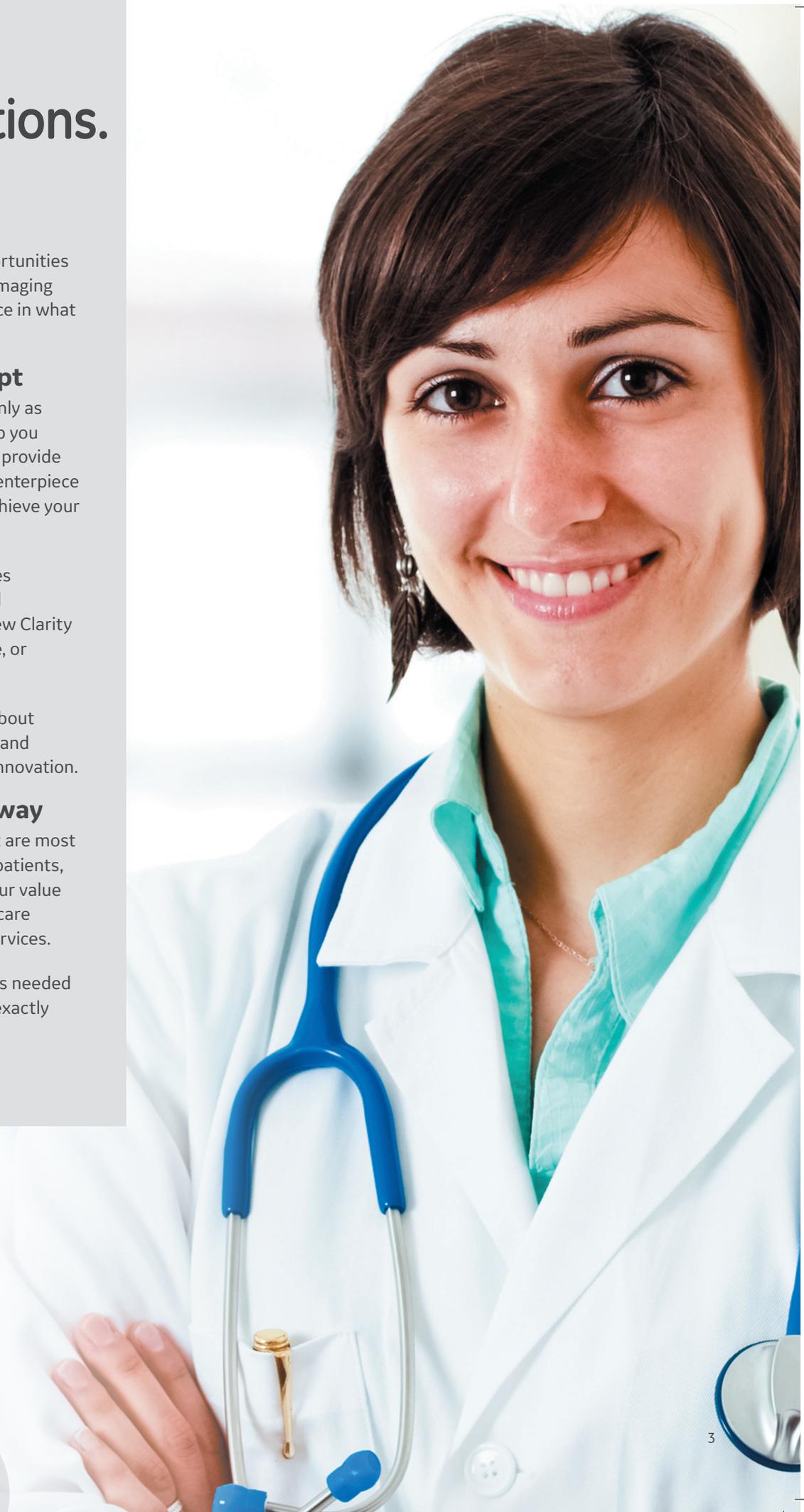
You'll find many of the technologies inherited from our most advanced Revolution CT system — like the new Clarity panel detector, new user interface, or Organ Dose Modulation.

Helping you feel more confident about moving to the next level, clinically and economically — that's intelligent innovation.

## **We're with you all the way**

Offer the CT imaging services that are most attractive to your physicians and patients, do it most efficiently, and grow your value with the full support of GE Healthcare education, training, and uptime services.

Revolution ACTs: It's exactly what's needed to help you achieve success. And exactly what you'd expect from GE.





**“Our goal is sustainable growth.”**

All businesses depend on sustainable growth, either by deepening relationships with current customers or attracting new ones – or both. Capture new opportunities by offering referring physicians and patients higher levels of clinical results while maintaining a stable economic foundation.

### **Investment security**

Protect your investment by choosing the latest technology platform. Revolution ACTs features a host of modern innovations such as the new Clarity panel detector. A complete product designed for better ROI and quick break-even.

### **Engineered for lower operating costs**

Benefit from a proven compact geometry platform that has a small footprint to ease siting and installation. A new compact generator helps reduce power consumption over time.

### **Expand your clinical reach**

Revolution ACTs provides the essential tools and advanced clinical applications needed as you grow your referral network to support the routinely scheduled scans to the unexpected trauma, stroke, or vascular scans.

### **Stay up and running**

Benefit from the support of a large and experienced network of GE Healthcare field and online service engineers. Our global and local supply chain helps to ensure the highest quality spare parts are readily available should you need them.



**“We want to offer more services while still managing costs.”**

Improve your ability to provide CT scan services while managing the overall cost of care. Revolution ACTs can help you reach more patients and enables them to benefit from a range of care that includes CT while they're there, 24/7.

### **Do more for more patients**

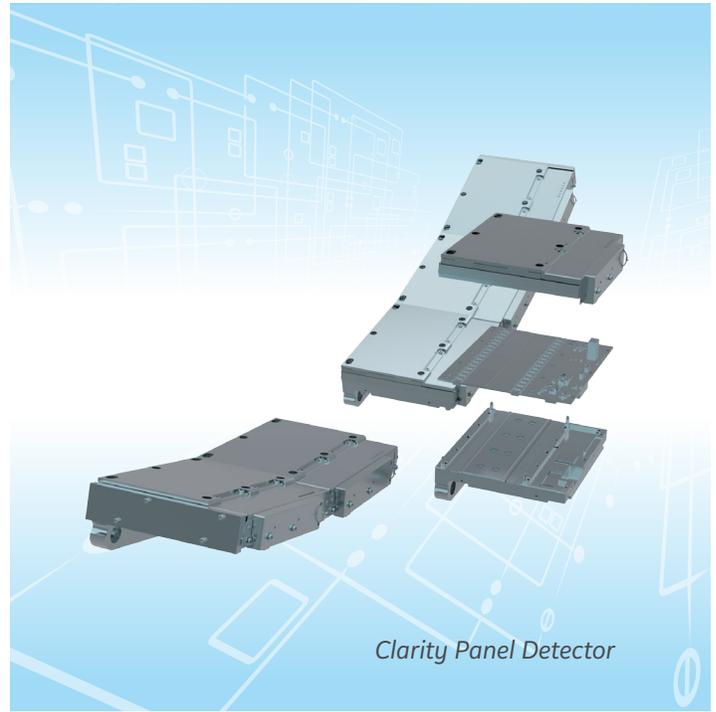
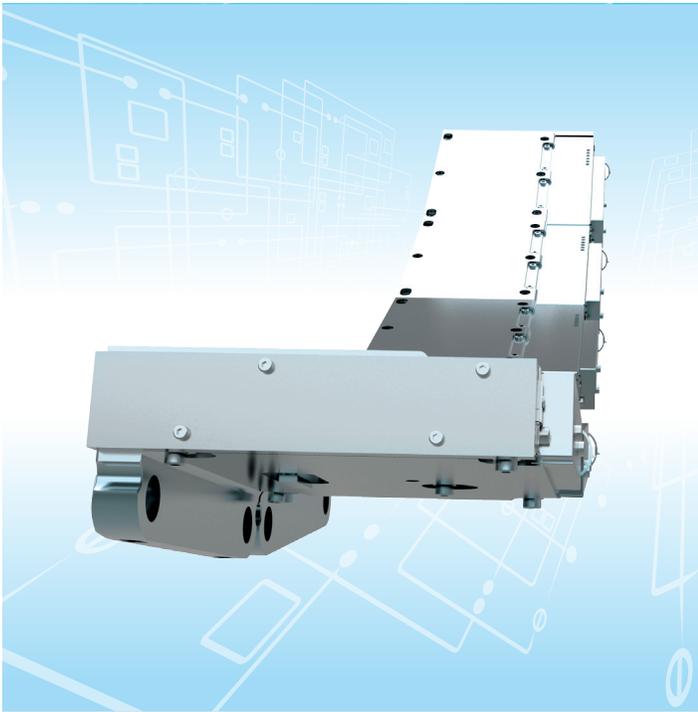
Increase your ability to image a wide variety of inpatients. Revolution ACTs features and functions are tuned to serve every patient – from emergency and trauma to pediatric and from the elderly to larger sized patients.

### **Ready when you are**

Be prepared at all times with innovations like a power management system that cuts detector warm up time. Once patients arrive, our intelligent workflow with many automated tools helps you achieve efficiency and higher throughput.

### **Reduce workflow variability**

Increasing consistency can help reduce costs, too. Every hospital is distinct and has specific needs – and innovative technologies like Digital Tilt, Emergency Scan Mode, and Spectral Calibration can help you achieve consistent workflow outcome.



*Clarity Panel Detector*

## Technologies that revolve around you

Designed with your needs in mind, Revolution ACTs was engineered to help you improve patient care by providing new levels of image quality, economic value, and advanced applications. Powering these advances is a host of integrated, largely exclusive technologies.

### **Higher Performance - Modern Detector Design**

**Clarity panel detector:** An innovative detector technology that introduces a segmented panel design with many design elements inherited from our premium Revolution CT.

### **Improved spatial resolution**

**Clarity panel detector** delivers exceptional spatial resolution of 18 lp/cm to enable high quality imaging and visualization of anatomy in 3D.

### **Lower electronic noise**

An integrated detector design built with modern chipsets and DAS on detector (DoD) technology used in our premium Revolution CT to lower noise and achieve high signal to noise performance.

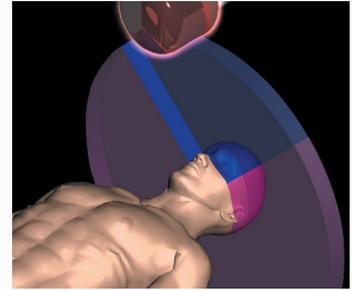
### **Efficient design**

A compact and power efficient design, each detector module consumes a paltry 2 mW per channel. Intelligent thermal management is tightly integrated within the detector so it is ready to scan within minutes.

# Patient care

## Smart Dose Technologies

Intelligent technology designed to help you acquire high-quality images using lower doses of radiation, for accurate diagnoses and lower exposures for patients.



### **Volumetric Image Space Reconstruction (ViSR\*):**

An advanced filter helps manage photon starvation in large-size patients as well as wide or dense anatomical objects such as shoulders and pelvis. A 3D filter reduces noise without compromising resolution, for clear visualization of brain, tumor, and pediatric cases. ViSR delivers up to a 20% improvement in image quality at the same dose, or the same image quality with up to a 36% dose reduction.

### **Organ Dose Modulation (ODM):**

ODM was developed to act as a virtual shield and provide the dose reduction goal of a shield material without the negative effects it may have on imaging performance. Reduce radiation dose up to 40% when imaging superficial tissues like breasts and eyes through ODM.

**3D mA Modulation:** Feature enables the system to optimize tube current in x-y-z directions with negligible effect on image quality. The system varies mA according to patient shape and scan protocol to lower dose in a patient-centric manner.

**Dose Check:** Receiving notifications and alerts if your predetermined dose levels will be exceeded enables you to correct and confirm the right settings before scanning to avoid unnecessary radiation dose to your patient.

**DoseWatch™:** A comprehensive dose management solution. Keep dose levels as low as reasonably achievable (ALARA) while producing sharp, focused diagnostic images. Track and monitor patients' cumulative radiation dose over time and take steps to prevent excessive radiation dose.

\* In clinical practice, the use of ViSR 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.

# Work smarter

## Smart Flow Technologies

Systems designed to help you improve productivity by streamlining user workflow and access to information.



- Digital Tilt:** This advancement in image reconstruction technology enables you to scan patients more efficiently — up to 28% in routine scan workflow. The entire workflow is easy to setup and control from the CT console. Simpler and faster, digital tilt helps you manage the challenging and less cooperative patients, while completing the scan with the quality you need.
- Spectral Calibration:** See an improvement in image uniformity in off-centered scans using a unique technology for beam hardening correction that makes patient positioning and setup more robust to operator variability.
- IQ Enhance:** This advanced algorithm enables helical pitch acceleration up to 2.7x while still achieving the same image quality as a conventional scan. Completing scans faster helps your patients breathe easier with shorter breath hold time.
- User Console:** Inspired by our most premium product, Revolution CT, the console for Revolution ACTs has been designed to make it easy to learn and use. Its modern look and feel is created from insights obtained from a wide cross section of radiologists and technologists.

### Revolution ACTs workflow

- Set up head cushion
- Adjust table for patient's procedure
- Adjust center line
- Fix patient head
- Confirm scan parameters
- Start scan
- Scan using tilted image reconstruction

Confirm images  
Release patient

up to  
28% faster

### Traditional workflow

- Set up head holder
- Move patient into holder position
- Adjust table for patient's procedure
- Adjust center line
- Adjust OM line
- Adjust tilt angle
- Start scan
- May need to repeat steps for proper patient positioning and tilt
- Scan using standard image reconstruction

Confirm images  
Release patient

\* Actual results may vary depending on the circumstances, including but not limited to, exam type, clinical practice, and image reconstruction technique. This information was based on a simulation using the GE Revolution ACTs device and is presented for illustrative purposes only.

# Essential and advanced applications



- **Volume Viewer:** Harness the power of Volume Viewer to make 3D visualization routine. Get more information about the spatial relationships of different structures using multi-object volume rendering, multi-planar reformat, and MIP/ min-MIP.
- **Navigation and Fly-Through:** Use Virtual Endoscopy to visualize intra-luminal structures such as airways, sinuses, or vascular structures. A virtual “fly-through” mode lets you view images dynamically.
- **SmartPrep with Dynamic Transition:** SmartPrep allows intermittent monitoring of IV contrast enhancement

in an area of interest using low-dose scan. Dynamic transition provides automatic transition from monitor phase to scan phase.

- **Vascular Imaging and Processing:** Allows enhanced analysis of vascular features by automatically determining vessel centerline and tracking multiple vessels. You can also view oblique cross sections of vascular images, and rotate curved views to more clearly visualize vascular lesions.



# A world of support

When we created Revolution ACTs, we thought as much about helping you get the most out of it as we did about the technologies that went into it.

## For your peace of mind

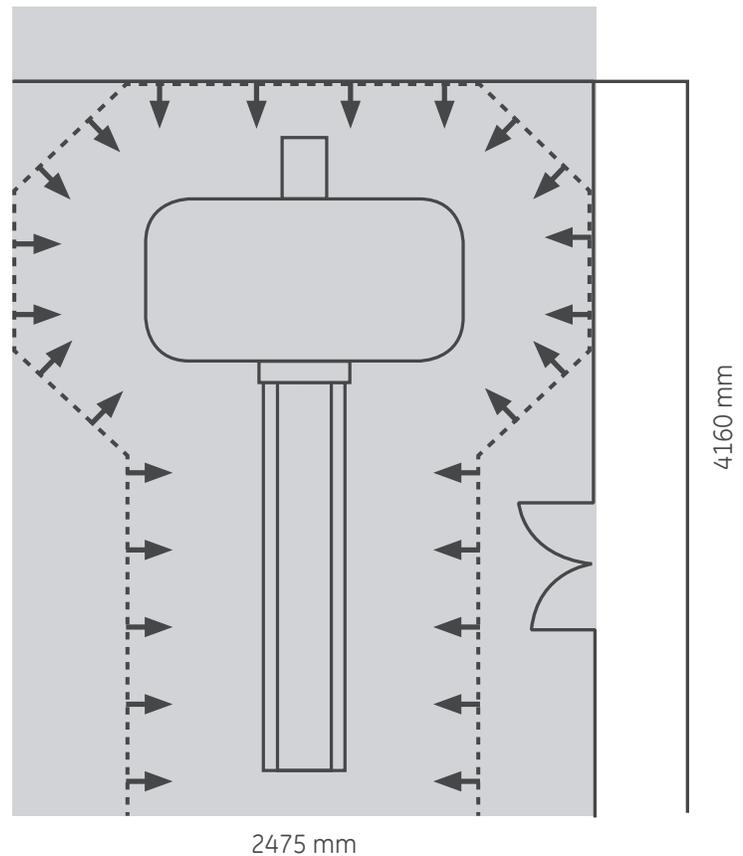
Just as you provide the best care possible to your patients, we're also here to provide the best possible care to ensure that Revolution ACTs meets your demanding clinical needs.

Revolution ACTs has a footprint of only 8.0 m<sup>2</sup> lowering siting space needed. A low power input requirement of only 40 kVA makes installation simpler and lowers power consumption.

In addition to user training and applications education, count on GE Healthcare to support you with a large and experienced team of field service engineers to help increase your system uptime and access.

Your Revolution ACTs scanner features a broadband connection capability with built-in self-check systems to connect your CT scanner directly to our technical centers. So GE service engineers can quickly assess any problem. Often they can fix your system remotely.

## Easy to Site



# What are your aspirations?

In the end, Revolution ACTs is about helping you provide better patient care to more patients in an affordable way. Revolution ACTs is designed in a way that reduces the typical tradeoffs you face between quality and affordability. Revolution ACTs gives you investment security by opening the door to a host of modern technologies; a more informed diagnosis with higher image quality and wider array of clinical applications; and a patient centric workflow and dose management.

Since physicians began scanning patients with GE CT systems in 1976, few companies can point to the same number of advances to help healthcare providers take better care of their patients and do it more economically.

Your reputation depends on making the right choices. Ours depends on helping you make them.

**Contact your GE sales representative to learn more.**

Call us now on our toll-free number **1-800-209-9003** or write to us at **[teamgehc@ge.com](mailto:teamgehc@ge.com)**





[www.gehealthcare.com](http://www.gehealthcare.com)

GE Healthcare provides transformational medical technologies and services to meet the demand for increased access, enhanced quality and more affordable healthcare around the world. GE (NYSE:GE) works on things that matter - great people and technologies taking on tough challenges. From medical imaging, software & IT, patient monitoring and diagnostics to drug discovery, biopharmaceutical manufacturing technologies and performance improvement solutions, GE Healthcare helps medical professionals deliver great healthcare to their patients.

## Imagination at work

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