

Canon

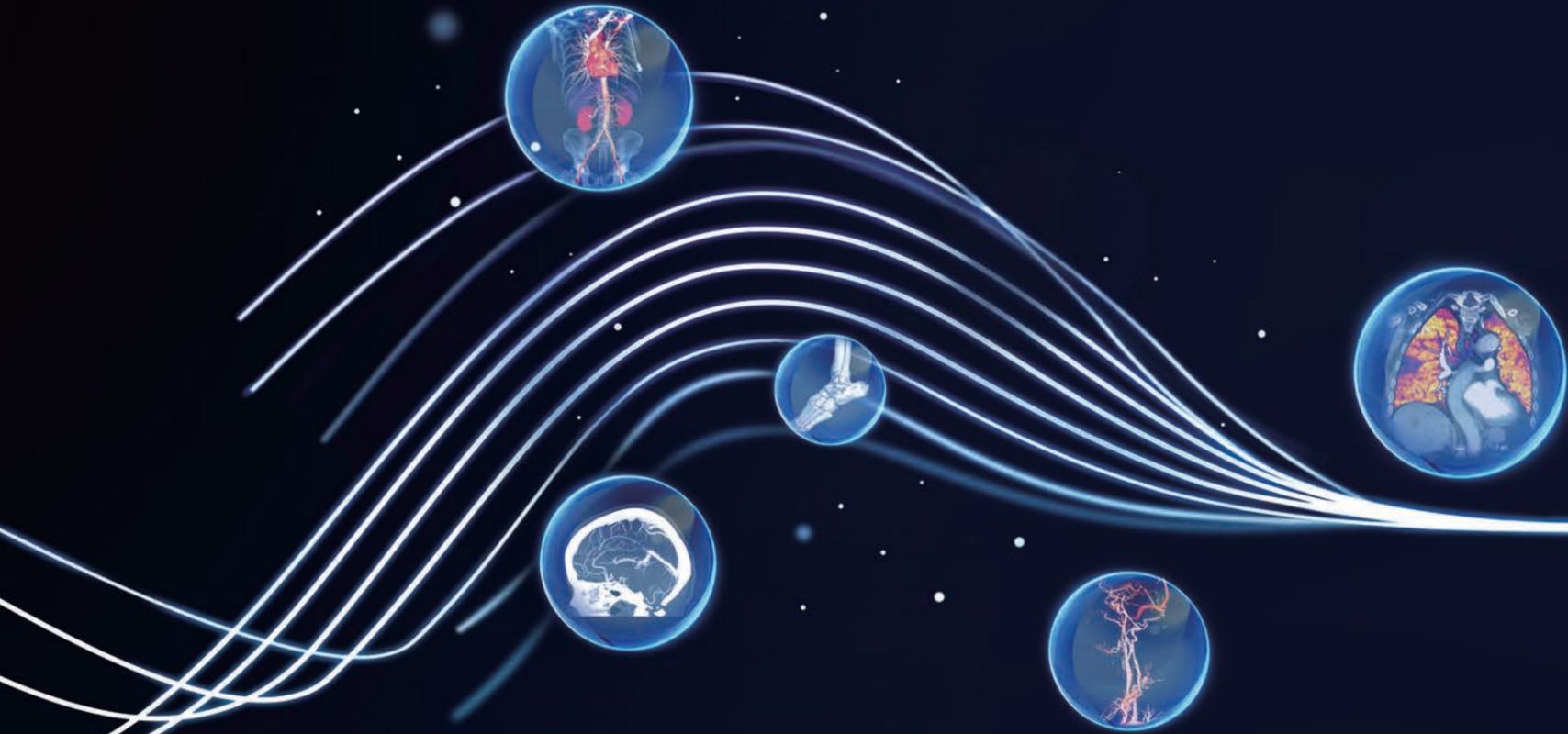


***Aquilion* Serve**

Simply delivers.

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Ever increasing workloads are pushing medical imaging departments to their limits. At Canon Medical we have listened closely to the challenges facing our customers and have asked ourselves, "What can we do to help?"

The Aquilion Serve CT scanner delivers consistent imaging results with less training, better image quality, lower radiation dose, and faster throughput — leaving more time for patient care. Its next-generation user experience and powerful suite of intelligent technologies simplify patient positioning and enable automatic planning of routine CT exams.

Day or night, whether operated by an expert or a first-time user, the Aquilion Serve simply delivers.



Outcomes driven innovation

INSTINX

Optimizing workflow with INSTINX*

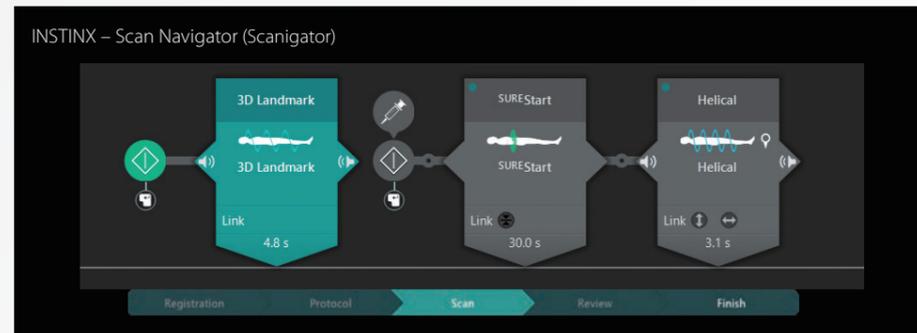
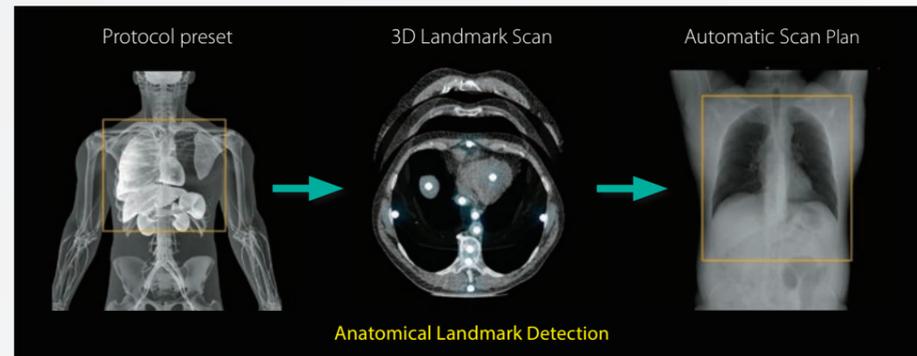
INSTINX AI-Assisted Workflow Automation is redesigned from the ground up to set new standards in efficiency and consistency. Every detail of the workflow has been thoroughly refined based on clinical testing in medical centers around the world.

Now every operation is more intuitive and can be learned faster than ever before. This ease of use contributes to work satisfaction, time savings and flexible allocation of resources.

Instinctive user experience

Anatomical Landmark Detection

Using data acquired via the 3D Landmark scan, Canon's Anatomical Landmark Detection (ALD) can accurately identify the anatomical structures required to perform automatic scan planning for routine examinations. The industry first, 3D Landmark scan is an ultra-low-dose helical scan performed using the SilverBeam filter, at the same dose as a traditional 2D scanogram. ALD enables the scan range and field of view to be automatically set to the same position predefined in the scan protocol, thus saving time while ensuring consistent results for all CT technologists.



* INSTINX is a multimodality brand concept developed to highlight the new standards in efficient and consistent workflow made possible with Canon's technology.

World's first built-in gantry cameras



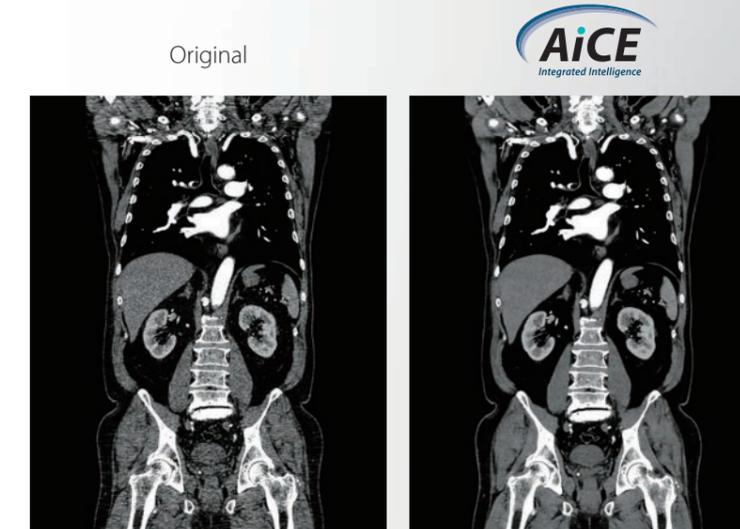
Built-in gantry cameras provide one-touch patient positioning from the touch screen on the gantry and monitoring at the console.

Technologists and patients alike enjoy increased safety with Tech Assist Lateral Slide, a feature that mechanically moves the patient up, down, left, or right to the correct position at the touch of a button.

Advanced intelligent Clear-IQ Engine (AiCE)

Harnessing the enormous computational power of Deep Learning neural networks, AiCE has an outstanding ability to distinguish signal from noise to deliver CT images that are sharp, clear and distinct.

Fully integrated into a patient-centric workflow, AiCE protocols automatically reduce radiation dose while maintaining diagnostic detail.





Simplicity delivers.

Aquilion Serve offers a redesigned operator workflow that brings together powerful AI-enabled automation and an intuitive interface to provide high-quality CT exams that are fast, improve safety and are easy to perform.

INSTINX—Scanning is easier than ever before

A patient-centric CT workflow solution, incorporating intuitive design and automated features for improved efficiency

Referral

Pre Scan

Scan

Post Scan

Diagnosis

Wide, Open Design
80 cm Bore

Built-in positioning cameras
Built-in gantry cameras support automated one-touch patient centering

Table tray & roll holder*

Built-in Positioning Cameras

Tech Assist Lateral Slide*

Touch Screen Interface

Improve access, comfort, and safety
Wide, open, and low gantry design featuring Tech Assist Lateral Slide* with 17 cm left-to-right mechanical table movement

Gantry touch screen controls
The flexibility of software touch panels puts you in control

3D Landmark scan
3D scan planning and automation at a 2D scan dose

3D Landmark Scan

InstaView

Contrast Management

Automatic scan planning
Anatomical Landmark (ALD) becomes anatomically aware after the very first scan and captures a wealth of information about the patient for a tailored scan experience

Automatic Scan Planning

AI-powered Dose Reduction

Boosting Clinical Confidence
Fully integrated AI-enabled technologies for high quality, low dose imaging and workflow automation

Hanging layouts
Display the patient examination how you want to view it

Auto Hanging Layouts

Auto Transfer

Vitrea Advanced Visualization*

MPR Multiviewer

Auto ^{SURE}subtraction¹

Quick Patient Positioning

Intuitive, AI-Assisted Scanning

Consistent, High-Quality Results

* Option
¹ Auto ^{SURE}Subtraction Iodine Mapping and Bone Removal

Interventional CT—Safe in your hands

Conduct faster, more focused interventional procedures using the hybrid touch-panel* interface, that enables one-handed operation with controls on a versatile touchscreen tablet and in-room 27-inch* display monitor. The wide, open 80 cm gantry bore and lateral couch movement provides flexible positioning and enhanced patient access and safety.

Plus, with Canon Medical's iterative reconstruction you now have real-time access to the high-quality, low-dose images you need to increase the speed and safety of all your interventional procedures.

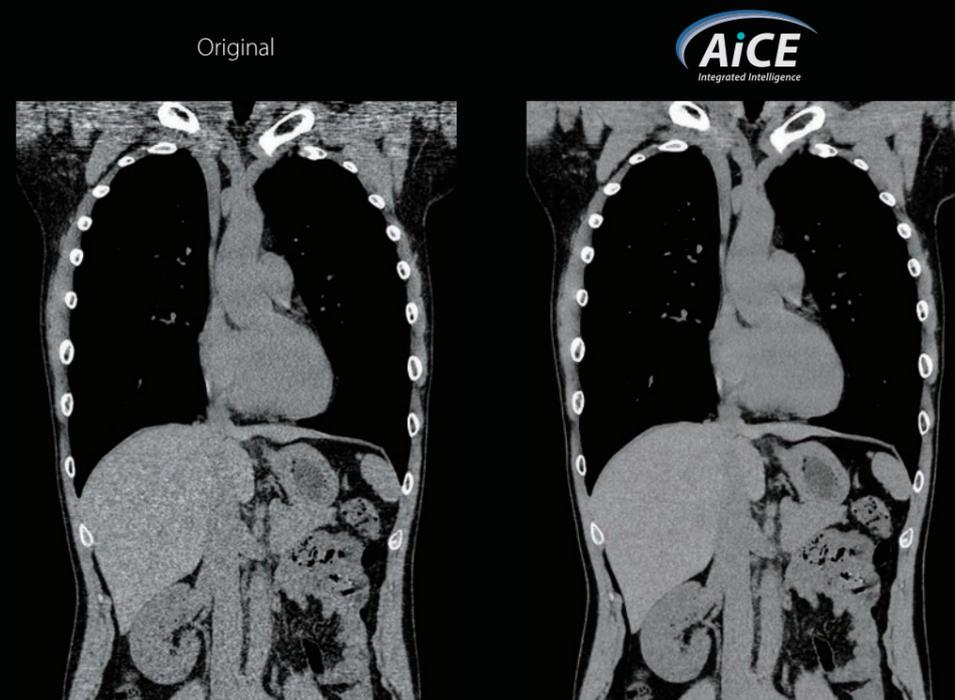


Welcome to the age of AI-assisted CT

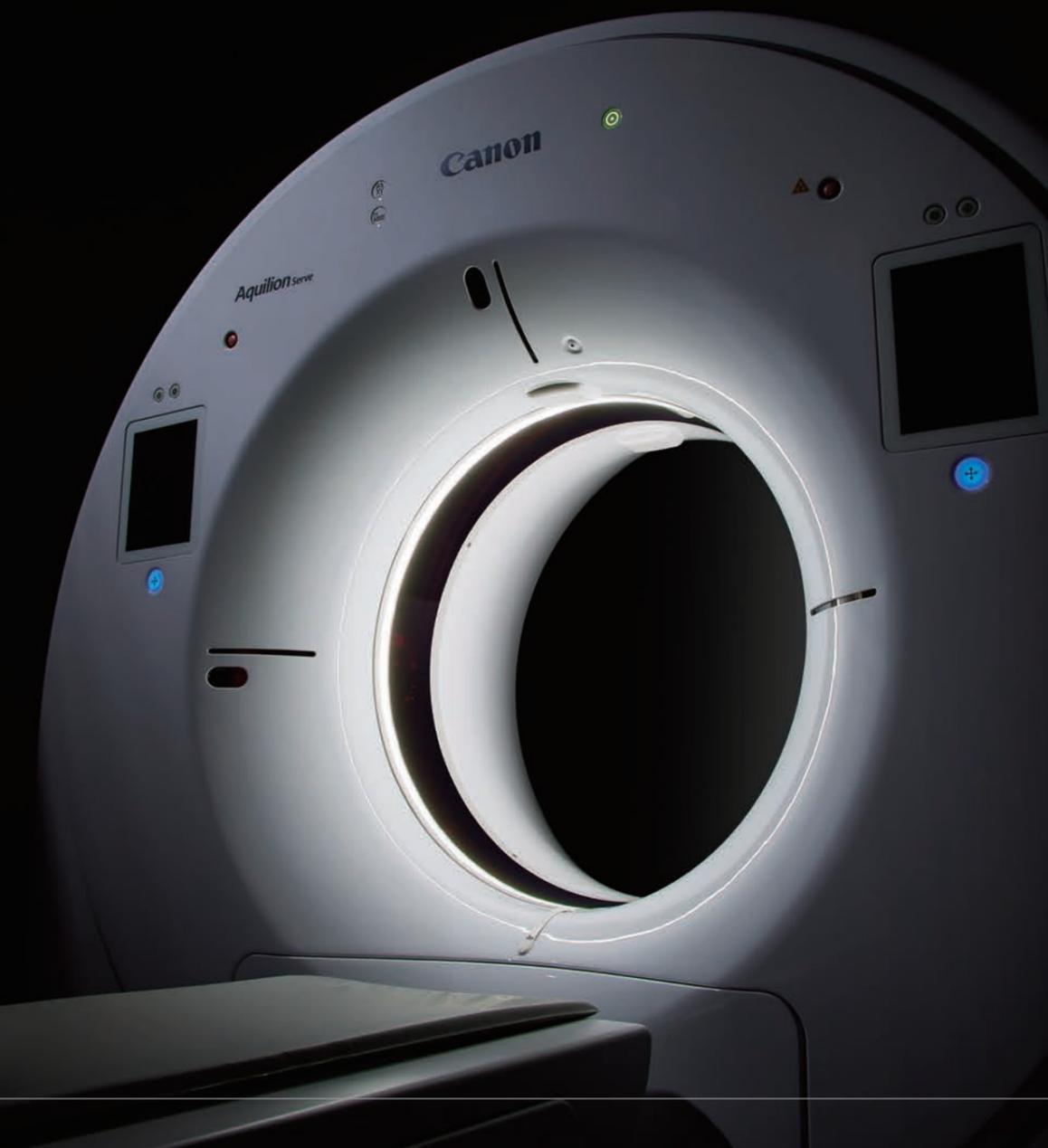
Advanced intelligent Clear-IQ Engine (AiCE) delivers our best low-contrast resolution ever*, with improved low-contrast detectability, noise and spatial resolution relative to hybrid iterative reconstruction.

AiCE is available for all body regions providing sharp, clear and distinct images for a more confident diagnosis.

- Low Noise
- Sharp High Contrast Resolution
- Clear Low Contrast Detectability



* N1.5mm @ 0.3%, 22.6 mGy for Genesis. 1.5mm@ 0.3%, 21.8 mGy for Prime SP.
† Personal experience only. Performance referenced has not been confirmed via rigorous clinical studies.



“Advanced Deep Learning Reconstruction of clinical images using AiCE heralds a new era in CT. It enables phenomenal patient dose reduction, up to 90% below the National Diagnostic Reference Levels, at the same time as providing extremely high-quality clinical images and all in a rapid time frame suitable for everyday clinical use.”[†]

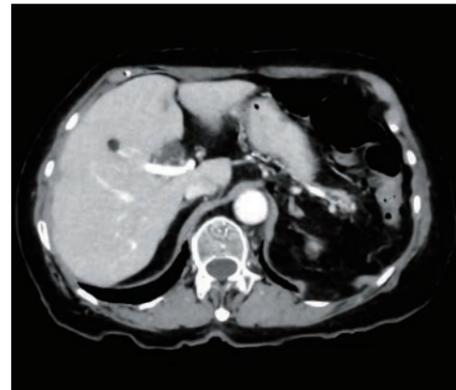


Dr. Richard Hawkins
Mid Cheshire Hospitals
NHS Foundation Trust, UK

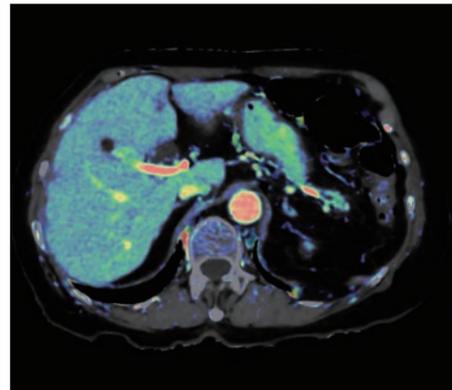
Clinical capabilities you can rely on

Fast, streamlined workflows and consistent results support a confident diagnosis for every patient with Aquilion Serve.

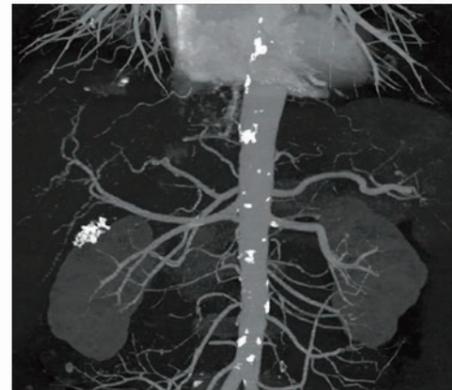
Enhanced diagnostic confidence with ^{SURE}Subtraction (SCT) Imaging



Original CT image



Color iodine map fusion



Workstation bone removal

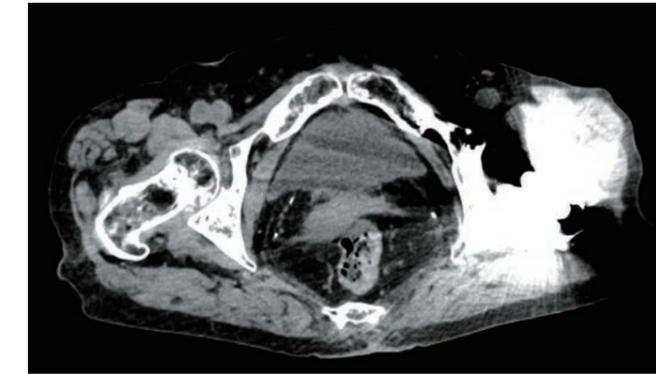


Angiography SCT

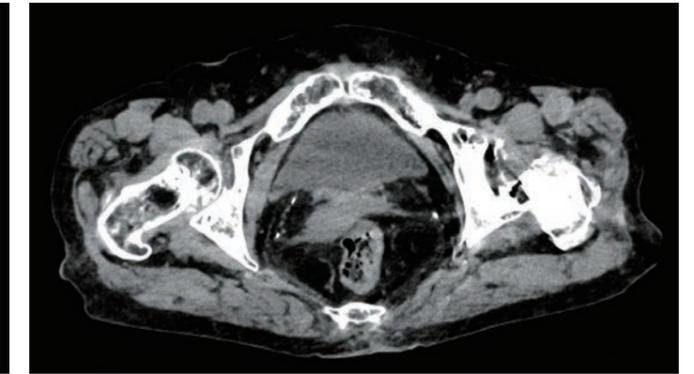
Iodine mapping SCT automatically produces color iodine maps for any multiphase scan across lung, bone, and body imaging. These maps clearly highlight perfused areas of anatomy to help you make a more confident diagnosis and enhance your daily routine reporting.

SCT automatically removes bones, calcium and stents for an unobstructed view of the true vessel lumen for all your CTA exams.

Single Energy Metal Artifact Reduction (SEMAR) Worry-free metal imaging



Original CT image



With SEMAR + AiCE

Dose-neutral SEMAR utilizes a sophisticated reconstruction technique to reduce artifacts caused by metal and thus improves visualization of the implant, supporting bone and adjacent soft tissues for clearer and more confident diagnoses.

Extended FOV*



Easy patient access with 80 cm bore and full 80 cm extended FOV reconstruction offers flexible patient positioning.

*Option



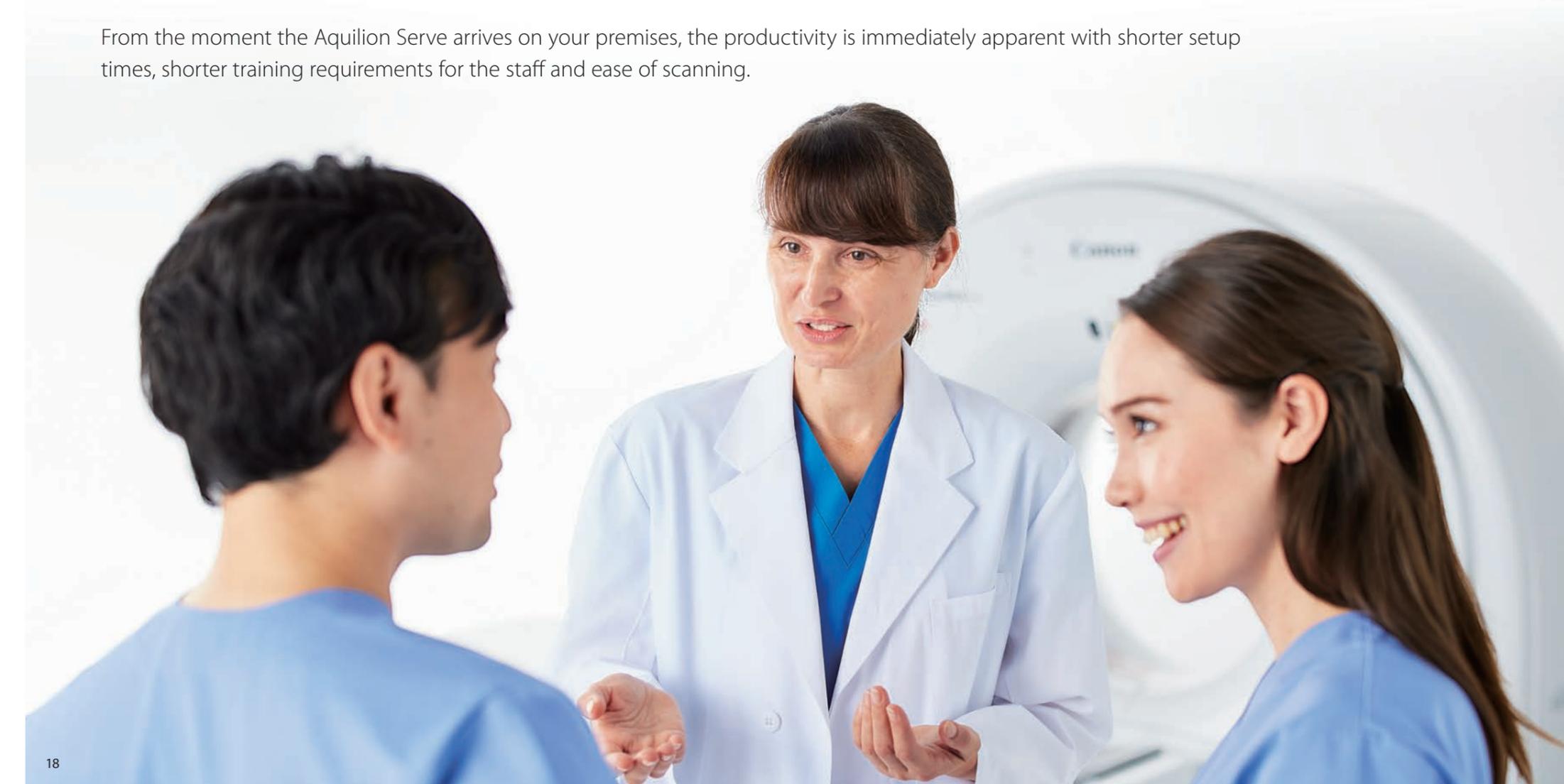
Value delivered

Aquilion Serve delivers exceptional value by automating tasks, accelerating patient throughput and minimizing training requirements. It's also available at a very accessible price point and designed to save space and energy. When you choose Aquilion Serve, you choose value now and into the future.

Serve efficiently and productively

The highly productive Aquilion Serve offers optimized patient throughput, consistent results and impressive uptime that can meet the needs of multiple departments and expand your clinical capabilities.

From the moment the Aquilion Serve arrives on your premises, the productivity is immediately apparent with shorter setup times, shorter training requirements for the staff and ease of scanning.



Aquilion Serve's intuitive and automated workflow solution drives faster throughput and higher productivity while ensuring a level of consistency that is the hallmark of any successful diagnostic imaging business.

The time saved due to workflow provides opportunities to serve more patients and reduce the burden on overloaded staff members. At the same time, the ease of use and consistency support flexibility in staff allocation.



Hiroyuki Yamaguchi
Section Chief, Department of Radiological Technology, Hakujuji Hospital, Fukuoka, Japan

"Anatomical Landmark Detection can automatically perform scan planning, setting the scan range and FOV based on the patient's actual anatomy as identified on the 3D Landmark scan. This makes it easy for anyone to perform any scan and shortens the exam time for increased throughput."

"I spent just three hours learning with the applications specialist and could then confidently scan with the Aquilion Serve on my own on the very first day I was trained. By the next day I was teaching one of my colleagues. That's how easy it is."



Gabrielle James
Radiographer in Charge, South Coast Radiology, Burleigh, Queensland, Australia

Serve the environment consciously

Aquilion Serve is designed to enhance efficiency, including by reducing environmental impact. The compact, eco-friendly design minimizes energy consumption as well as infrastructure requirements.

Reduce infrastructure requirements

Aquilion Serve saves space with the smallest footprint in its class. Despite a large 80 cm gantry aperture, it is surprisingly compact. Its space-saving dimensions contribute to easy installation and allow use in most standard CT rooms.

Reduce energy consumption

Aquilion Serve incorporates a host of innovative adaptive power management technologies, helping you decrease energy consumption and reduce running costs while minimizing your environmental footprint.

Reduce downtime and maintenance

Aquilion Serve's soft, round design makes it easy to clean and disinfect the surfaces of the system. Further, its new minimal-click installation reduces software installation time and minimizes downtime during maintenance and upgrades.



Installation Space



Power Capacity

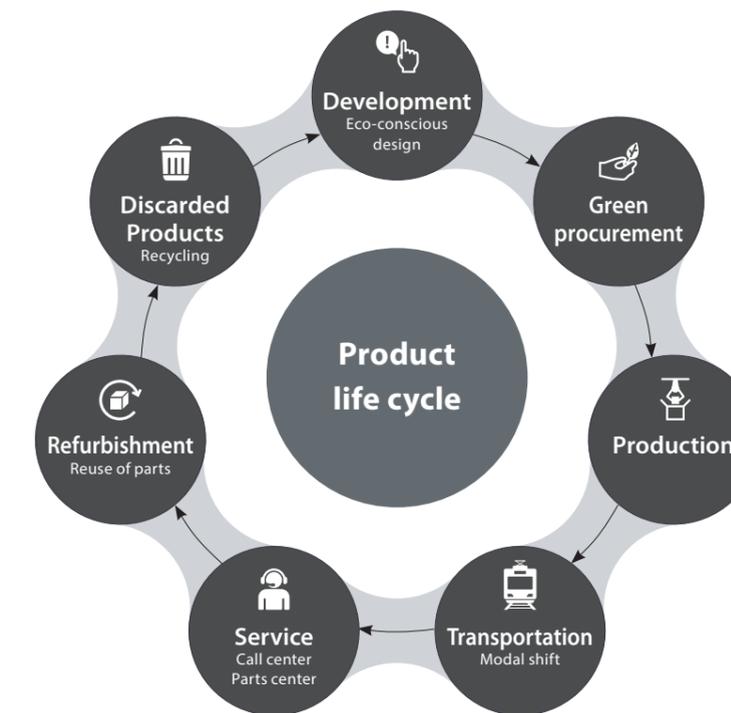


Approach toward an eco-conscious design

While our goal is to continue to bring innovative new products such as Aquilion Serve to the market each year, we do so in a conscientious way and with the intention of contributing to a sustainable global environment.

Based on a product development and design process that complies with IEC 60601-1-9 "Environmental product design for medical equipment," we are working on energy saving, resource saving, space saving, use of recycled materials, reduction of hazardous chemical substances, improvement of recyclability of products, reduction of packaging materials, and so on.

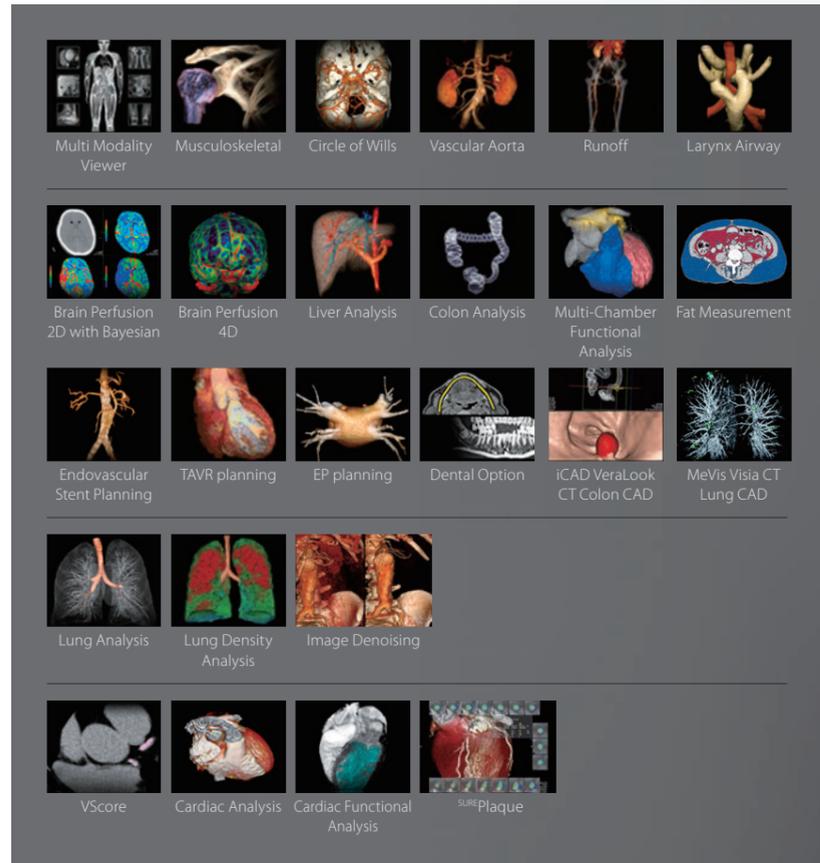
These efforts cover the entire product life cycle, from production to disposal. We are also working on eco-design, including innovations to increase the user efficiency of our products in order to improve the productivity of our customers' examinations. Our products comply with ErP, REACH, and RoHS.



Integrated post processing with Vitrea

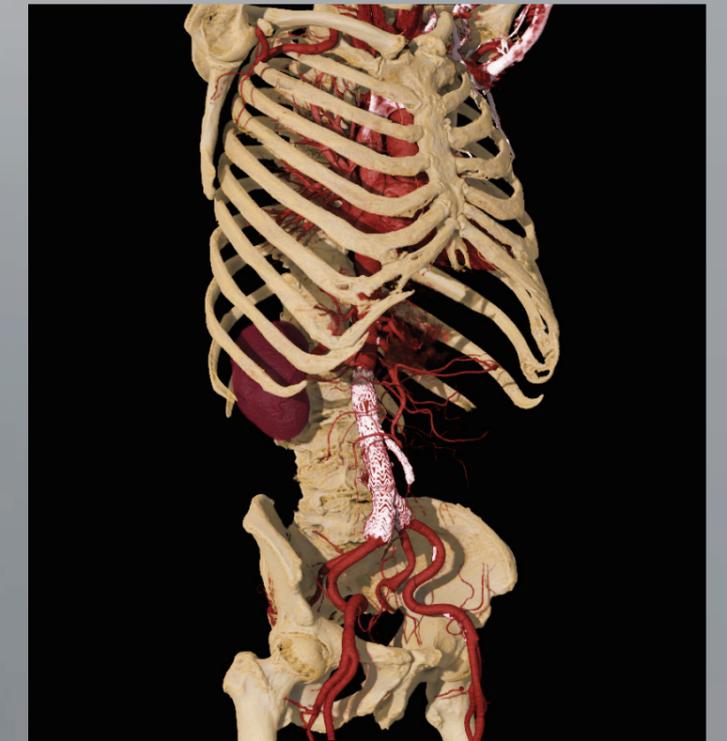
The Vitrea post-processing solution seamlessly integrates with Aquilion Serve, providing powerful post processing analysis via advanced visualization tools or automated routine case review for any examination — right after the examination.

Vitrea



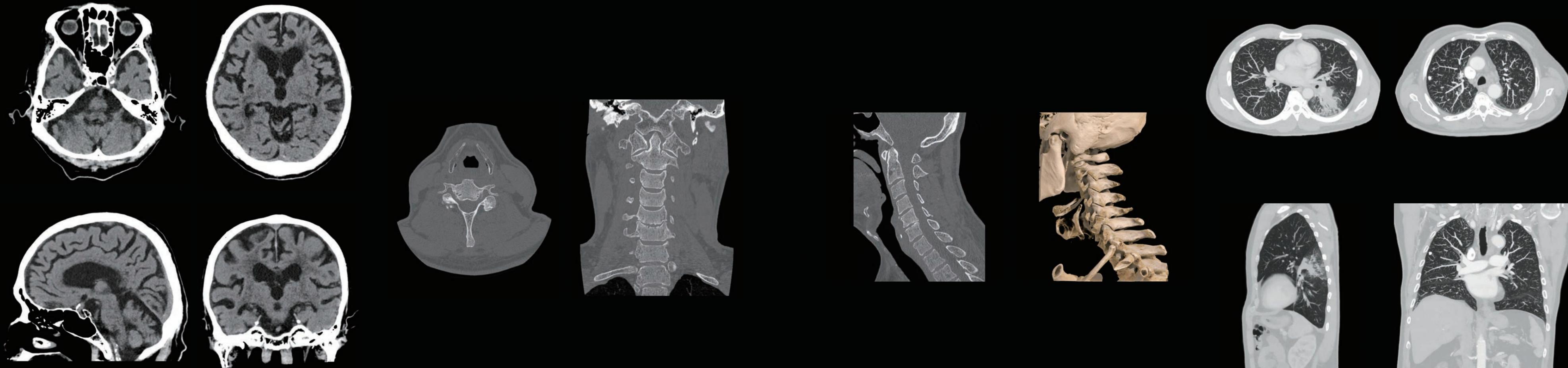
Photorealistic CT

Vitrea is loaded with a suite of post processing applications for routine image review and work-up of vascular CTA examinations. Global Illumination rendering is available in all applications for photorealistic images to facilitate communication with patients and clinicians.

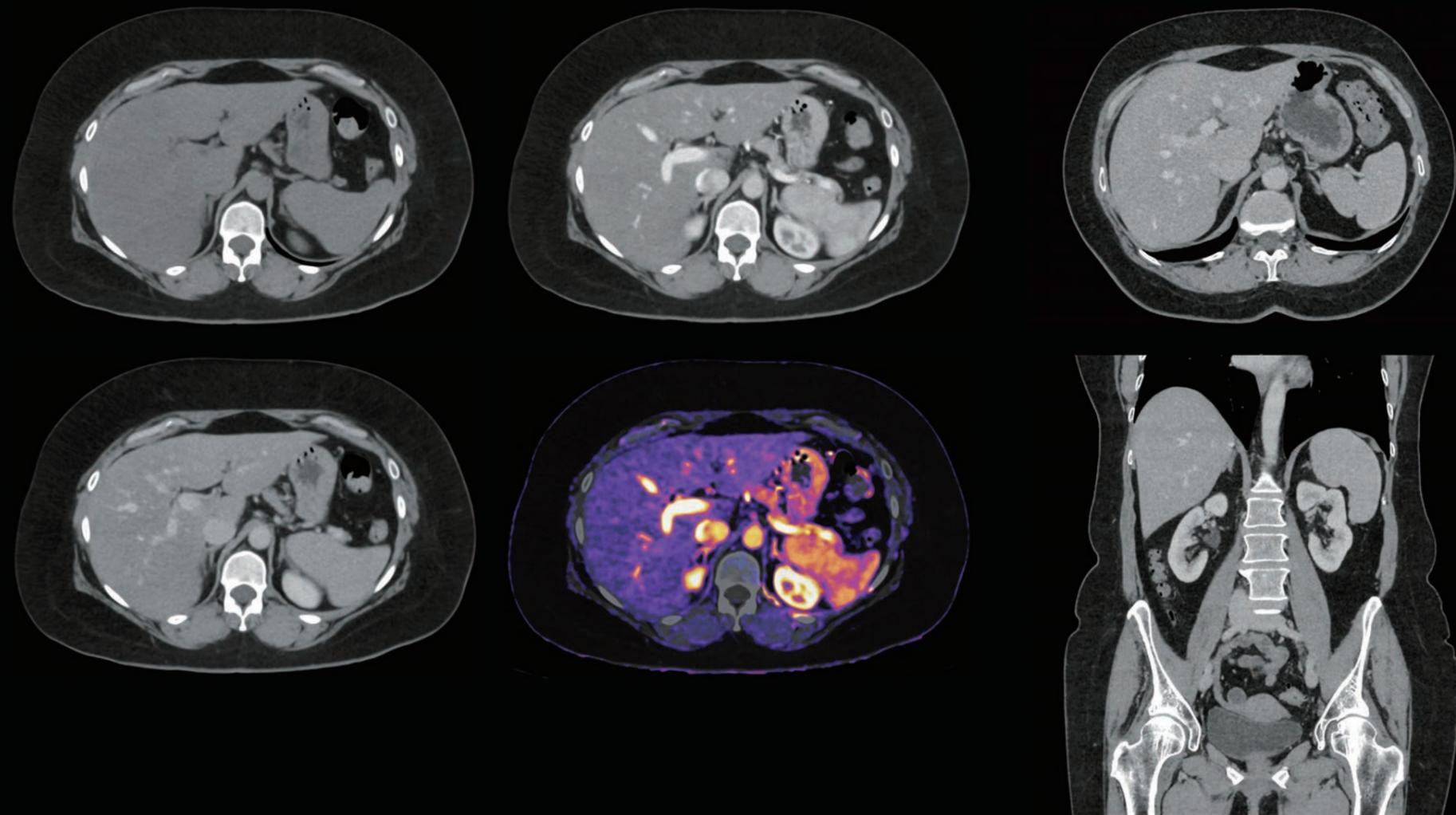


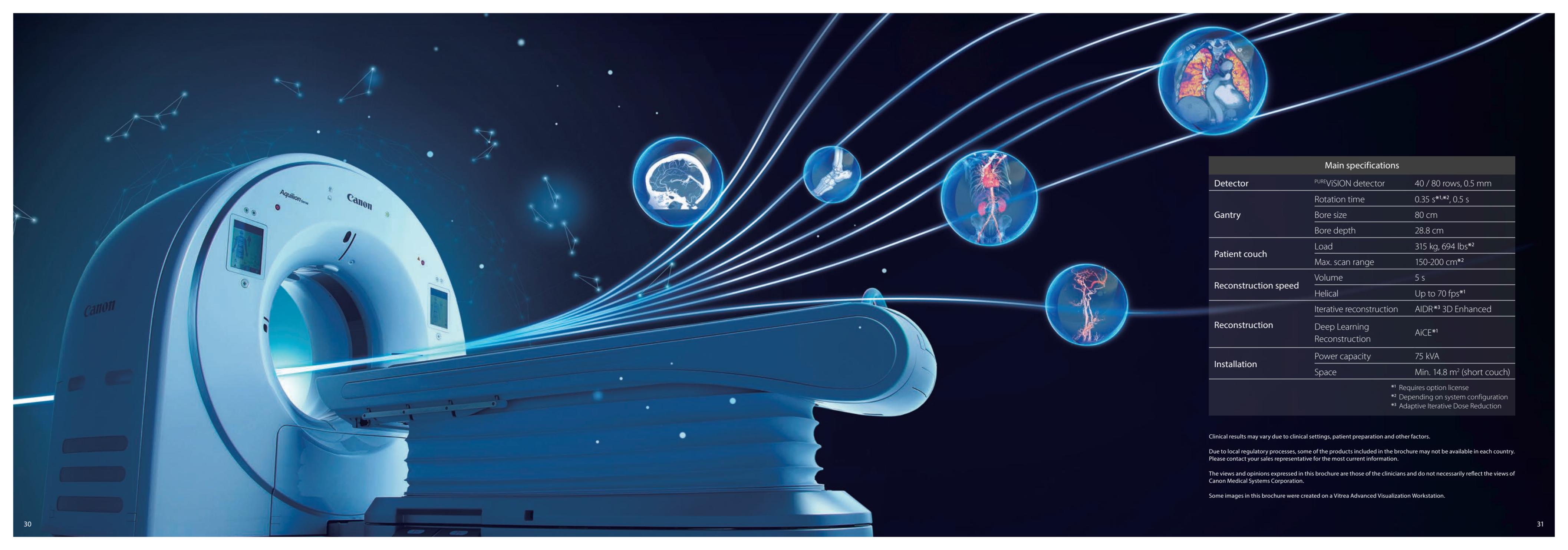
* Vitrea is a separate Canon product available for purchase.

Clinical images



Clinical images





Main specifications		
Detector	PUREVISION detector	40 / 80 rows, 0.5 mm
	Rotation time	0.35 s ^{*1,*2} , 0.5 s
Gantry	Bore size	80 cm
	Bore depth	28.8 cm
	Load	315 kg, 694 lbs ^{*2}
Patient couch	Max. scan range	150-200 cm ^{*2}
	Volume	5 s
Reconstruction speed	Helical	Up to 70 fps ^{*1}
	Iterative reconstruction	AIDR ^{*3} 3D Enhanced
Reconstruction	Deep Learning Reconstruction	AiCE ^{*1}
	Power capacity	75 kVA
Installation	Space	Min. 14.8 m ² (short couch)
	^{*1} Requires option license ^{*2} Depending on system configuration ^{*3} Adaptive Iterative Dose Reduction	

Clinical results may vary due to clinical settings, patient preparation and other factors.

Due to local regulatory processes, some of the products included in the brochure may not be available in each country. Please contact your sales representative for the most current information.

The views and opinions expressed in this brochure are those of the clinicians and do not necessarily reflect the views of Canon Medical Systems Corporation.

Some images in this brochure were created on a Vitrea Advanced Visualization Workstation.



Altivity is Canon Medical's new approach to AI innovation. It is a multimodality, overarching brand, which pulls together all the AI technology that Canon Medical provides under one name.

Aquilion **serve**

Canon

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Canon Medical Systems Corporation meets the Environmental Management System standard ISO 14001.

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Please contact your local Canon Medical Systems representative for details.

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