

**Canon**

**FAS**  
Technology & Diagnostics



***Aquilion* Start**

Quality Care for All

# ***Aquilion*** *Start*



## Start with high-end technology

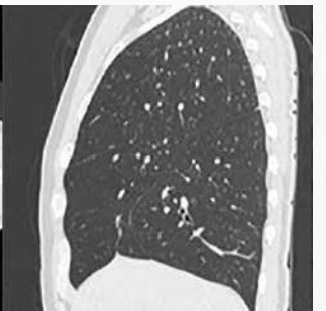
Aquilion Start is packed with premium technology originally developed for our high-end CT systems. It is carefully crafted and adapted to the changing requirements of healthcare organizations, including the need for faster workflows, universal accessibility, and sound economics.

# Quality care for management



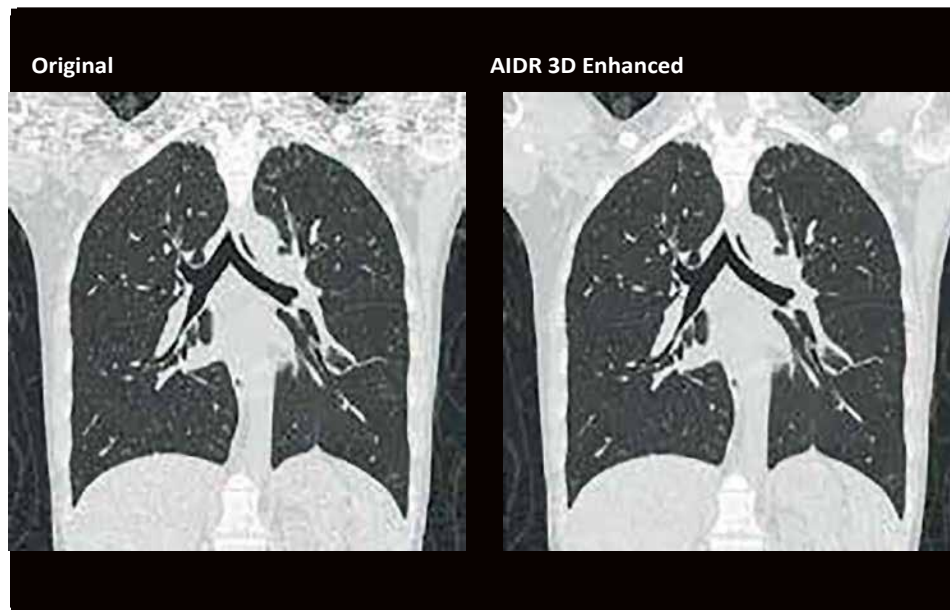
## Opening up new opportunities

With a minimum installation space of only 9.8 m<sup>2</sup> and minimal power consumption, Aquilion Start fits even into most bucky rooms. Have you ever considered the clinical advantages 3D CT imaging could provide over conventional X-ray?



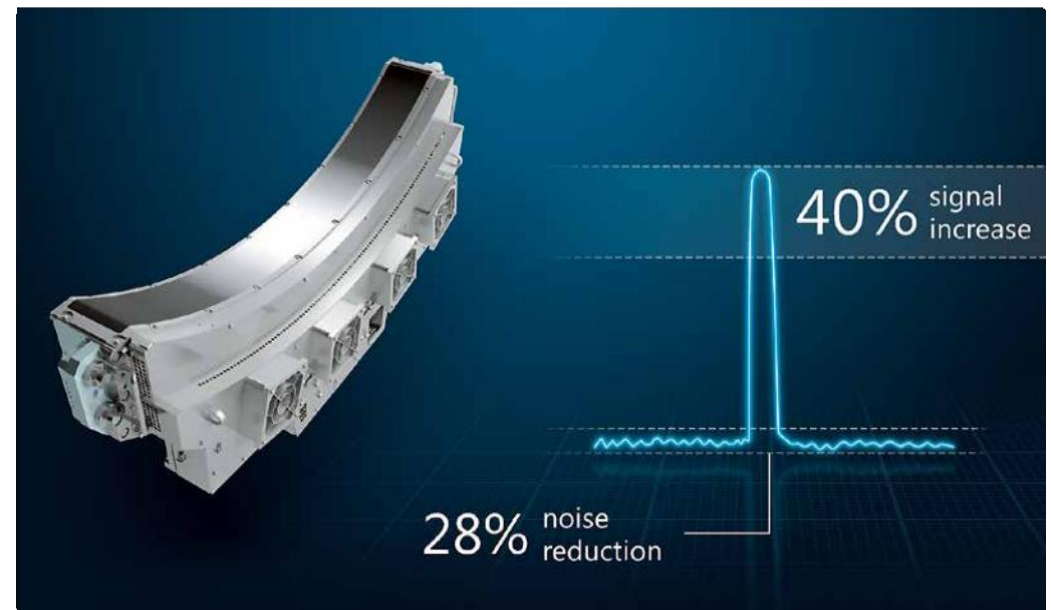
# Quality care for patients

As healthcare becomes more accessible, the number of patients requiring CT scans has significantly increased. Aquilion Start incorporates advanced technologies to optimize patient care and accelerate clinical decision making. Innovative high-end features ensure that you can acquire premium-quality images routinely at very low patient dose.



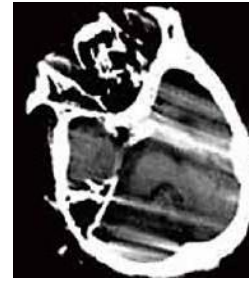
## Integrated dose reduction

Canon Medical's AIDR (Adaptive Iterative Dose Reduction) 3D Enhanced is fully integrated into the system's workflow, taking the guesswork out of optimizing patient dose. The exposure dose is automatically reduced by up to 75%.

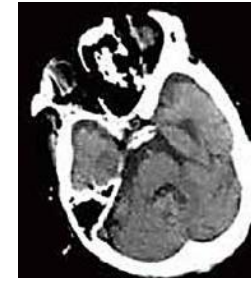


## More efficient imaging

PUREVISION Detector technology, which was introduced in our premium systems, has been adapted for Aquilion Start to achieve the perfect balance of image quality and patient dose for outstanding speed in routine clinical practice.



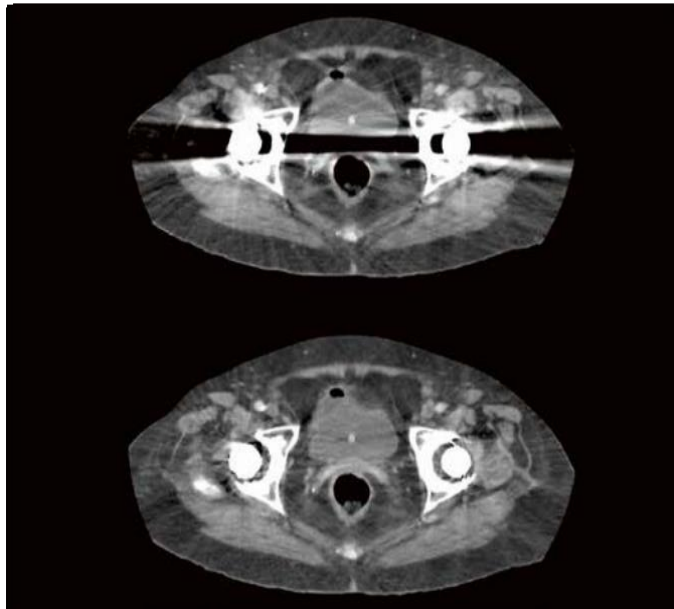
**Original**



**APMC**

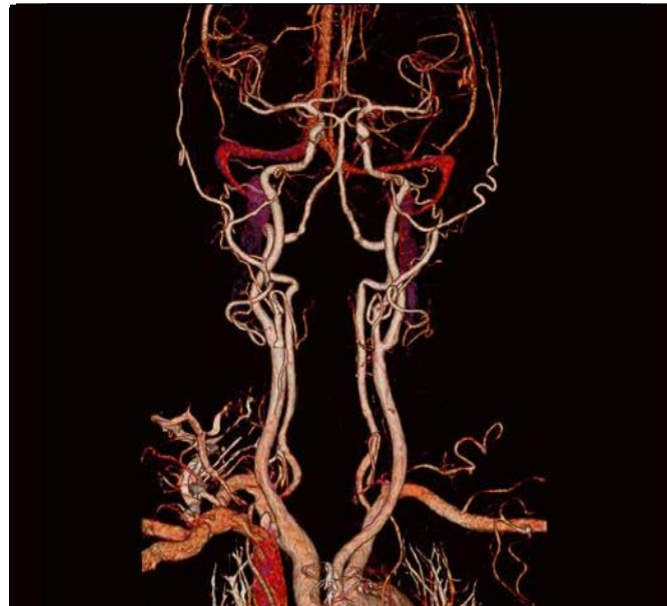
## Advanced motion correction

Canon Medical's APMC (Advanced Patient Motion Correction) technology provides clear, artifact-free images even if the patient moves slightly while being examined.



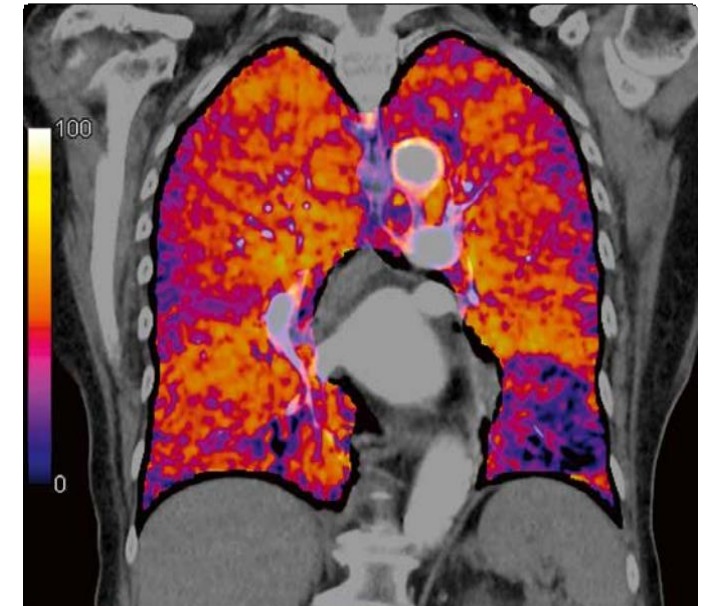
## Metal artifact reduction

Dose-neutral SEMAR (Single Energy Metal Artifact Reduction) reduces artifacts caused by metal for better visualization of implants, supporting bone and adjacent soft tissue.



## Bone-free imaging\*

Subtraction CTA enables superior visualization in CT angiography with true subtraction of bone and calcifications.



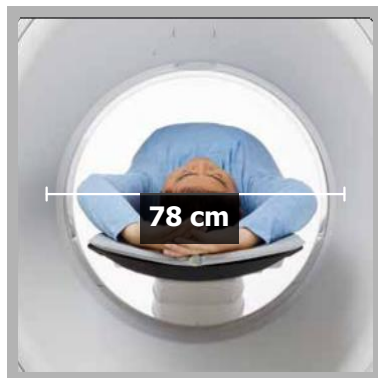
## Improved lesion detection\*

Iodine Mapping provides clearly defined perfusion with color blood flow maps as a result of advanced registration and subtraction.

\*optional

# Quality care for operators

Aquilion Start's gantry features design innovations to improve the scanning experience for patients while providing excellent operability and work safety for the technician. The system's wide bore and couch allow comfortable scanning for even the largest of patients. The couch top can be lowered to a minimum height of 31.2 cm for facilitating patient transfer from a wheelchair or stretcher.



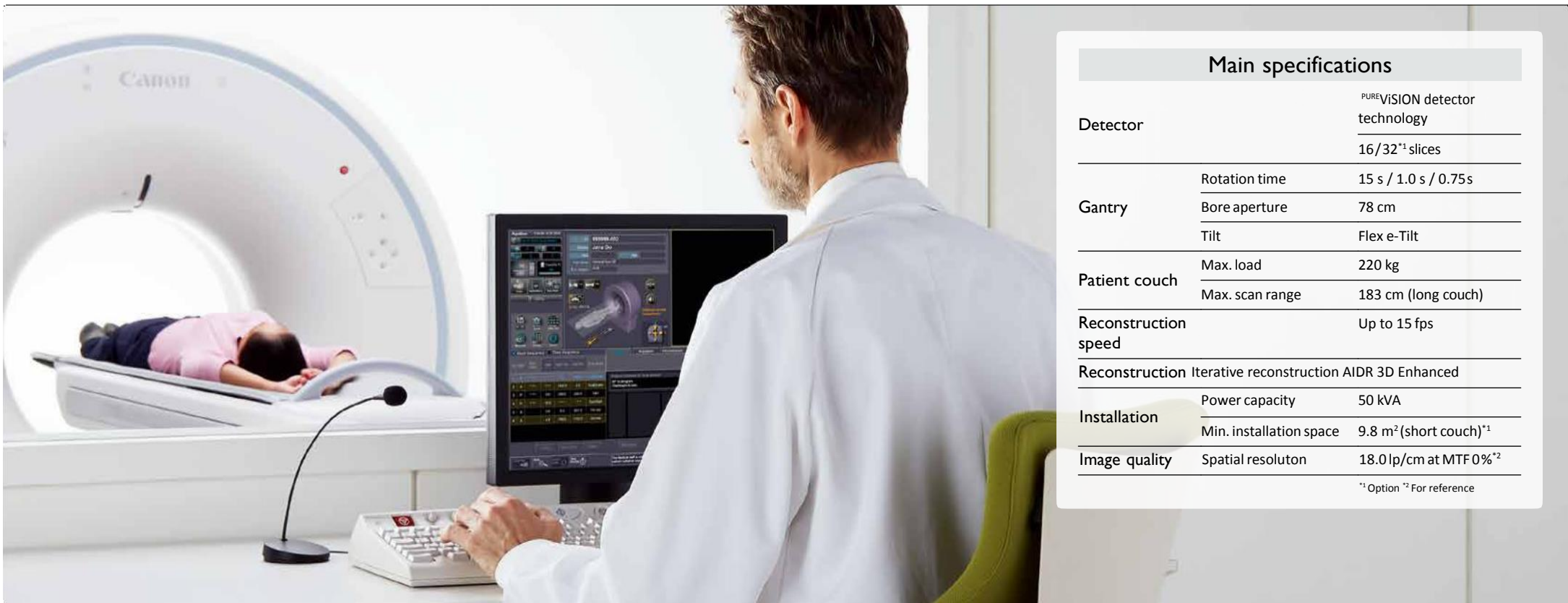
Wide bore



Low minimum height

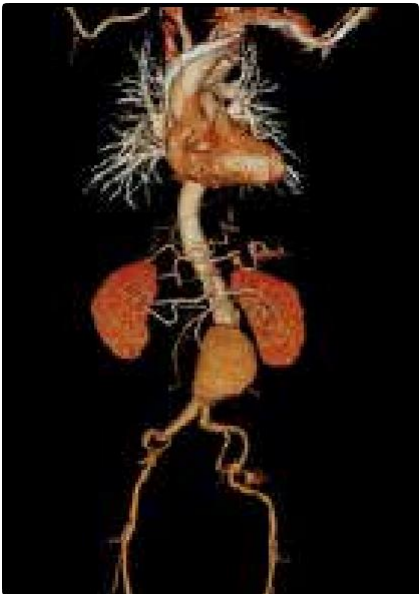


Wide couch



Main specifications		
Detector		PUREViSION detector technology
		16/32 <sup>*1</sup> slices
Gantry	Rotation time	15 s / 1.0 s / 0.75 s
	Bore aperture	78 cm
	Tilt	Flex e-Tilt
Patient couch	Max. load	220 kg
	Max. scan range	183 cm (long couch)
Reconstruction speed		Up to 15 fps
Reconstruction	Iterative reconstruction AIDR 3D Enhanced	
Installation	Power capacity	50 kVA
	Min. installation space	9.8 m <sup>2</sup> (short couch) <sup>*1</sup>
Image quality	Spatial resolution	18.0 lp/cm at MTF0% <sup>*2</sup>

\*1 Option \*2 For reference



### Zero-click workflows

Fully automated, protocol-integrated applications make complex exams easy and provide robust and reproducible results. Zero-click algorithms enable superior image quality without the need for manual interaction, saving valuable time while improving consistency of examinations.



### Single-press positioning

With its simplified gantry panels, Aquilion Start streamlines operation and speeds up procedures. Complete patient positioning, for instance, can be done with one single push of a button.



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