



Enable Confident Diagnosis for Cardiology

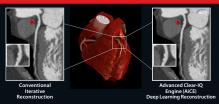
"We are able to scan more complicated patients who would otherwise get poor quality images, such as patients:

- With irregular or fast heart rates
- Unable to perform a prolonged breath hold
- Unable to lay still for extended periods of time." 2



Cardiac Excellence with Every Heart Covered and imaging for all patients.

AiCE Deep Learning Reconstruction – Advanced intelligent Clear-IQ Engine



Fully Integrates Deep Learning Reconstruction (DLR) for sharp, clear, and distinct images at low dose

- AiCE distinguishes true signal from noise to deliver exceptional image quality without compromising on dose
- Fast Reconstruction and easy workflow

Precise IQ Engine (PIQE)3,4



Improved visualization for more diagnostic confidence

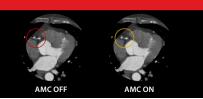
- Super resolution⁵ Deep Learning Reconstruction cardiac imaging
- Lower noise and clearer, more accurate cardiac imaging
- Better visualization with sharper anatomical details

Real-Time Beat Control³



- Monitors the patient's heart rate in real-time
- Controls the exposure timing for consistent and accurate care delivery

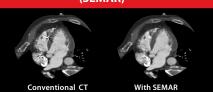
Cardiac Adaptive Motion Correction



Enhance the visibility of the coronary segments with motion

• Reduces cardiac motion for patients with higher heart rates

Single Energy Metal Artifact Reduction (SEMAR)



Improves the visualization of cardiac devices such as pacemaker leads and the adjacent soft tissues

- Reconstruction technique to reduce metal artifacts
- · No dose penalty
- For clearer and more confident diagnosis

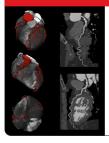
PhaseXact[®]



Determines the optimal cardiac phase for motion-free reconstruction

- Fully automated phase selection reconstruction and image transfer
- Performed in the raw data space with no-operator intervention or setup

Arrhythmia Detection Algorithm³



Ensure a safe and reproducible diagnostic study with every cardiac scan

- Recognizes irregular cardiac
- Controls scan exposure in real-time
- Volume⁷ / Helical⁸ Arrhythmia detection

vHP 3-Phase Cardiovascular Scan



Allows 3 scans to be performed in a single acquisition

- Seamlessly transition between:
 - Scan parameters optimized for each body
 - ECG gating on and off during cardiac scan
- Can optimize contrast media⁹ and lower radiation

- ¹ Kalisz et al. Artifacts at Cardiac CT: Physics and Solutions. RadioGraphics. 2016 November-December; 36(7): 2064-2083. doi:10.1148/rg.2016160079
- The clinical results, performance and views described are the experience of the clinicians. Results may vary due to clinical setting, patient presentation and other factors
- ⁴ Only available on the Aquilion ONE/PRISM Edition

- ⁵ PIQE is designed to fully utilize the maximum resolution of the detector
- $^{\rm 6}$ Only available on the Aquilion ONE/PRISM Edition and the Aquilion ONE/GENESIS Edition Only available on the Aquilion ONE/PRISM Edition and the Aquilion ONE/GENESIS Edition
- Only available on the Aquilion Prime SP
- ⁹ Optimization of contrast usage is only recommended within the dosing ranges that appear in approved iodinated contrast drug labeling

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Made For life