

Exceptional Detail for Orthopedic Imaging



"In combination with the SEMAR algorithm of the CT system and the post-surgical control examination, the images provided are incredible in (the) case of metal implants."²

> — Prof. Bellelli Head of the Interventional Radiology Department, San Pietro Hospital, Rome, Italy

High resolution and detail for diagnostic confidence

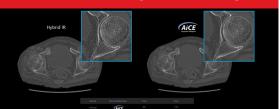
SEMAR (Single Energy Metal Artifact Reduction)



Supports improved visualization of implants and the adjacent soft tissue:

- Automated metal artifact reduction
- No dose penalty
- Compatible with Al-powered reconstruction

AiCE (Advanced intelligent Clear-IQ Engine)3



Fully integrates Deep Learning Reconstruction (DLR) for sharp, clear and distinct images

- AiCE distinguishes true signal from noise to deliver exceptional images at low dose
- Fast reconstruction speed and easy workflow

Dynamic Volume Imaging



Dynamic Volume Imaging captures joint motion during the scan:

- Dynamic joint studies help identify areas of interest or immobility
- Provides information in an interactive, high resolution 4D CT

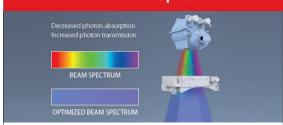
PUREVISION Detector



Supports improved image quality, especially at low doses:

- Advanced detector technology with 40% better light output
- True 0.5 mm slice resolution
- Noise reduction at all dose

PURE VISION Optics



New levels of image detail and low contrast resolution:

- Patient specific beam shaping filters provide an optimized beam spectrum and more homogenous
- Improves low contrast detectability at equivalent dose
- Reduces beam hardening artifacts, potentially improving imaging of larger patients

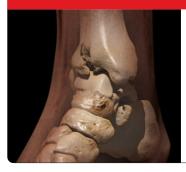
Deep Learning Spectral Technology 4,5



Rapid kV switching Spectral CT with Deep Learning Reconstruction:

- Up to 16 cm one rotation volume scan coverage and 50 cm full axial field of view
- Fully integrated end-to-end workflow is easy to use and can be conveniently incorporated into protocols
- Interactive composition analysis3

Global Illumination^{3,5}



- 3D/4D rendering for photorealistic views
- Invaluable tool for oncologists, surgeons and forensics
- $Ashkani, MD, S. (2021, January 4). Artificial intelligence improves orthopedic diagnosis. Mass General Advances in Motion. \\ \underline{https://advances.massgeneral.org/ortho/article.aspx?id=1330}$
- ²The clinical results, performance and views described are the experience of the clinicians. Results may vary due to clinical setting, patient presentation and other factors.
- ⁴Available on Aquilion ONE/PRISM systems
- ⁵Requires Vitrea Advanced Visualization

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