

Canon Medical Expands The Power Of AI Across Imaging Modalities



ADVANCED INTELLIGENT CLEAR-IQ ENGINE (AICE) INTEGRATED ACROSS CT AND MR SYSTEMS

Bringing the power of AI to routine imaging, Advanced intelligent Clear-IQ Engine (AiCE), Canon Medical's Deep Learning Reconstruction (DLR) technology, is now being integrated across modalities and over a broader portfolio of scanners with a wider range of clinical applications. AiCE was trained using vast amounts of high-quality image data, and features a deep learning neural network that can reduce noise and boost SNR to quickly deliver sharp, clear and distinct images, further opening doors for advancements in CT and MR.

Marketed in the Europe by [Canon Medical Systems Europe B.V.](#), this innovative technology is currently available on the Aquilion ONE / PRISM Edition, Aquilion ONE / GENESIS Edition, Aquilion Precision, Aquilion Prime SP and Aquilion Lightning SP CT systems, as well as on the Vantage Galan 3T and Vantage Oriana 1.5T MR systems. Capabilities include:

- High quality images with the differentiation of true signal from noise through deep learning innovation to match the spatial resolution and low-noise properties of advanced scanning and reconstruction.
- Seamless integration into routine clinical practice.
- Preferred image quality over non-AI reconstruction images following a clinical evaluation in MR, and where previously in CT, advanced approaches like MBIR had limited adoption.

"Prior to our Advanced intelligent Clear-IQ Engine (AiCE) technology, a reconstruction algorithm that produced improved low contrast detectability and spatial resolution, while markedly reducing noise – without requiring an increase in radiation dose or deterring workflow – was a tool that seemed intangible," said Roy Verlaan, Senior Manager of the CT Business Unit, Canon Medical Systems Europe B. V. "With the expansion of this unique DLR method across modalities, we're uplifting diagnostic imaging capabilities to a new level for our users."

For more information about Canon Medical's premium CT technology click [HERE](#) and about Canon Medical's premium MR technology click [HERE](#).

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