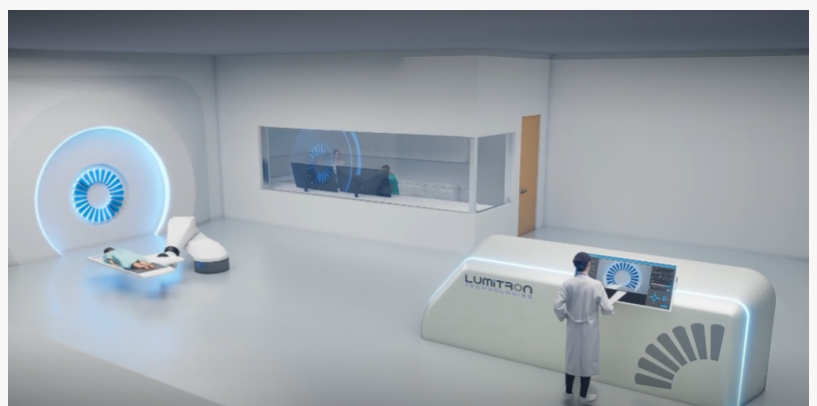


Lumitron's HyperVIEW is set to increase accuracy of mammography

Recent study concludes Lumitron's laser-Compton X-ray source can improve tumor detection by more than 3000% relative to today's standards.

IRVINE, CA, UNITED STATES, February 14, 2025 /EINPresswire.com/ --

Contrast-enhanced mammography (CEM) using traditional X-ray tubes is an advanced imaging technique that improves breast cancer detection rates, particularly for patients with dense or thick breast tissue. According to simulations published recently in *Medical Physics*, [Lumitron's HyperVIEW](#) has the ability to improve upon existing CEM systems by over 3000%.



Artist rendering of the Lumitron HyperVIEW X-Ray machine

LUMITRON
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"Lumitron's HyperVIEW laser-Compton X-ray source is an alternative to traditional X-ray tubes that can provide images with significantly greater clarity and accuracy," said Dr. Chris Barty, co-founder and Chief Technology Officer of Lumitron. "These capabilities can both enable more reliable detection and reduce the dose of radiation received by the patient"

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Lumitron's HyperVIEW laser-Compton X-ray source is an alternative to traditional X-ray tubes that can provide images with significantly greater clarity and accuracy"

*Dr. Chris Barty, Co-Founder
and Chief Technology Officer
of Lumitron*

Just last week, the U.S. Food & Drug Administration (FDA) granted Lumitron a "Breakthrough Device" designation for its HyperVIEW X-ray system utilizing the K-Edge subtraction technique to enable improved contrast-enhanced imaging for diagnosis of breast cancer. The announcement came on February 4th, World Cancer Day.

Peer-reviewed studies recently published by [Frontiers In Physics](#) show that HyperVIEW is the world's highest-resolution, compact mono-energetic, X-ray imaging system. It has the promise of forever changing the way

breast cancer is detected and treated.

[Click here to see an animation](#) of how Lumitron envisions its HyperVIEW X-ray system can revolutionize breast cancer detection and treatment as part of an image-guided Very High Energy Electron (VHEE) FLASH radiotherapy system.

<https://www.lumitronxrays.com/animation>

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