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Neusoft Medical Systems launches China's first photon-counting CT with NMPA approval

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Neusoft Medical Systems has announced that its NeuViz P10 photon-counting CT has received market approval fromChina's National Medical Products Administration (NMPA). This marks the first photonÃ¢â?¬â??counting CT approved inChina, and the world's first wideÃ¢â?¬â??body system equipped with an 8Ã¢â?¬â??cm detector.

Photon-counting CT (PCCT) is considered a breakthrough in nextÃ¢â?¬â??generation imaging. Unlike conventional CT scanners, which first convert XÃ¢â?¬â??rays into light before generating digital images, the NeuViz P10 uses a cadmium zinc telluride (CZT) detector to capture and convert each XÃ¢â?¬â??ray photon directly into a digital signal. This direct approach delivers images with far greater clarity, reduces radiation exposure for patients, and improves the ability to distinguish between different types of tissue.

For patients, these advances mean clearer visualization of tiny blood vessels in the heart, earlier detection of small tumors, more accurate identification of neurological conditions, and safer lung examinations with reduced exposure to radiation. The system's ultra-high resolution also helps doctors detect diseases at earlier stages, when treatment can be more effective and outcomes significantly improved.

To maximise clinical and research value, the NeuViz P10 integrates four innovation platforms: NeuPhoton Counting, Photon Supersonic, Photon Intelligence, and Photon Research. Together, these platforms deliver faster scans, safer imaging, intelligent workflow support, and expanded opportunities for clinical research.