

Korean firm Rayence unveils first X-ray detector with next-gen technology

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Presenting the cutting-edge detector technology, 'SPAD-GS', which is 2.5 times more sensitive to X-rays and 4times faster than ever

South Korea-based company Rayence has successfully applied the 'SPAD-GS' technology to 3D detectors. The technology enables the development of 3D detectors that are at least 2.5 times more sensitive and 4 times faster in acquisition speed than existing detectors of the same class.

The 'SPAD-GS (Global Shutter)' technology is the next-generation 3D detector technology that provides optimal image quality even in low-dose/high-speed driven environments.

Rayence's next-generation 3D detector technology is expected to attract attention in fields where X-ray imaging results need to be utilised as ultra-fast 3D images. The primary application of this technology will be in medical devices such as C-arms, which require real-time X-ray imaging during orthopedic surgery.

In addition, the technology could also be implemented in the battery and electronic component testing as well as aerospace and nuclear component inspection markets, where inspection time for images can impact production costs.

Rayence plans to begin mass-production within several years after completing clinical trials and obtaining certifications.