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High-speed x-ray CT for industrial inspection through high-brightness x-ray sources and photon counting detectors

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Here we demonstrate high-speed CT down to 200 ms for battery inspection suitable for in-line use in factories. The combination of high-brightness MetalJet x-ray sources combined with high frame rate photon counting detectors enables 3D inspection that can keep up with production lines. CT inspection is a promising approach to improve quality assurance in the fast-growing battery industry, allowing to robustly assess anode/cathode overhang while also enabling particle detection.

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