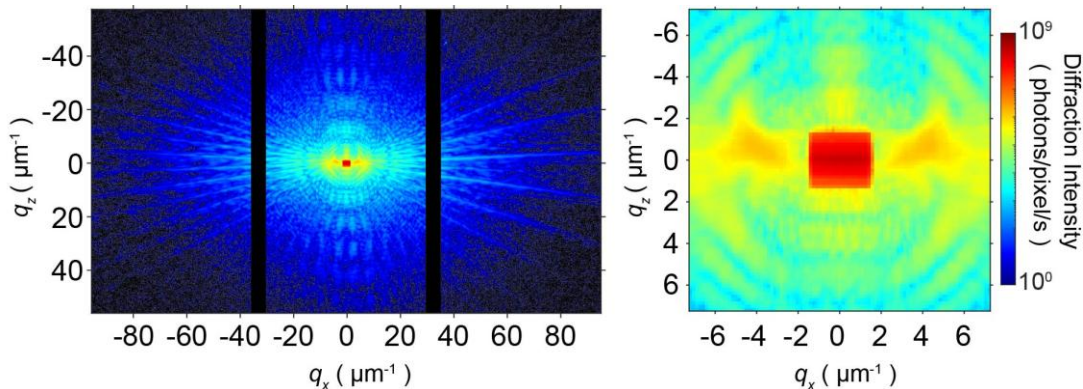


CITIUS Detectors for Coherent Beam Applications

600 Mcps/pixel (110 Gcps/mm²)



Direct Beam Measurement Without Attenuation



CITIUS used in a ptychography experiment by Takahashi et al. in J. Synchrotron Rad. (2023). 30, 989–994 showing the direct beam alongside lower intensity diffracted X-rays. The maximum intensity was ~ 250 Mcps pixel⁻¹ at 6 keV.

Energy range: 5 – 30 keV (1.5 – 5 keV available, < 1keV under development)

Frame rate: 26.1 kHz, 17.4 kHz, 8.7 kHz, ROI and burst mode (in dev.)

Saturation count rate: 600 Mcps/pixel @ 12 keV & 8.7 kHz

Detector arrays: 280k, 840k, 2.2M and 5M pixels

Area: 28 x 53 mm, 89 x 53 mm, 108 x 120 mm, 163 x 181 mm

For more information visit www.kai-scientific.com