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## Synchrotron x-ray applications of pixel/strip detectors at Diamond

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A wide range of area and linear detectors have been commissioned on the synchrotron X-ray beamlines operating at the Diamond Light Source in UK. In addition to mature technologies such as Image-Plates, CCD/scintillator detectors, Multi-Wire and Micro-Strip Gas detectors, more recent detectors based on semiconductor pixel/strip sensors coupled to CMOS read-out chips are also in use for routine synchrotron X-ray diffraction and scattering experiments. The performance of several commercial and developmental pixel/strip detectors for synchrotron studies are discussed with emphasis on the image quality achieved with these devices. Examples of pixel/strip detector applications on Diamond Light Source X-ray beamlines as well as considerations on detector calibration and image correction are reported.

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