

Press Release

Rigaku Introduces the Fastest 1D Detector for XRD Analysis

The Woodlands, TX –June 4, 2013. The new [D/teX Ultra 250](#) silicon strip detector from Rigaku reduces data acquisition time by almost 50% compared to competitive detectors. The timesaving is achieved by increasing the active area of the aperture, which increases the overall count rate and has the added benefit of increasing the angular coverage of the detector. Extremely good energy resolution, or X-ray fluorescence (XRF) suppression, is achieved through a unique combination of low-energy discrimination and a secondary monochromator.

Rigaku Corporation introduces the D/teX Ultra_250 1D detector as part of an ongoing effort to reduce the time of X-ray diffraction (XRD) data acquisition, thus improving instrument throughput and the ROI associated with the acquisition of an instrument. The new silicon strip detector is available for use with Rigaku's top of the line [Smartlab diffractometer](#), a system noted for its innovative Guidance software, automated alignment, and CBO optics. The D/teX Ultra_250 has a number of improvements over the previous model including a smaller pixel pitch (0.075 mm versus 0.10 mm) for improved resolution, an increased length for improved count rate and angular coverage, and a unique XRF suppression configuration that gives outstanding energy resolution.



**Rigaku D/teX Ultra 250
silicon strip detector**

About Rigaku

Since its inception in Japan in 1951, Rigaku has been at the forefront of analytical and industrial instrumentation technology. Rigaku and its subsidiaries form a global group focused on general-purpose analytical instrumentation and the life sciences. With hundreds of major innovations to their credit, Rigaku companies are world leaders in X-ray spectrometry, diffraction, and optics, as well as small molecule and protein crystallography and semiconductor metrology. Today, Rigaku employs over 1,100 people in the manufacturing and support of its analytical equipment, which is used in more than 70 countries around the world supporting research, development, and quality assurance activities. Throughout the world, Rigaku continuously promotes partnerships, dialog, and innovation within the global scientific and industrial communities.

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