

Rigaku Oxford Diffraction (ROD) is pleased to announce the release of a new single crystal diffractometer, the XtaLAB Synergy

Rigaku debuts new single crystal diffractometer at the British Crystallographic Association Spring Meeting (BCA 2016)

April 4, 2016 – The Woodlands, TX. [Rigaku Oxford Diffraction](#) announced the release of a new single crystal diffractometer, the [XtaLAB Synergy](#), at the [British Crystallographic Association](#) meeting in Nottingham, UK on April 4, 2016. Arriving on the anniversary of the acquisition of Agilent's XRD group by [Rigaku Corporation](#) and the formation of the Rigaku Oxford Diffraction business unit, the XtaLAB Synergy represents a combination of the best technologies from the two groups and a major advance in single crystal experimental performance and usability.

An improved Kappa goniometer design provides greater access to reciprocal space and both longer and shorter crystal to detector distances. Motor speeds have been doubled to improve data collection speed and minimize dead-time between scans. Total data acquisition time has been reduced and the ability to analyze smaller samples is improved by newly designed PhotonJet™ X-ray sources. Customers can choose between a range of detectors based on HPC (Hybrid Photon Counting) or ultra-fast CCD technologies, depending on their experimental needs of aperture size, sensitivity and the ability to measure data in a true shutterless mode.

The XtaLAB Synergy can be equipped with either one or two PhotonJet X-ray sources from a selection of three radiation types: Cu, Mo, and Ag. The PhotonJet X-ray source is based on microfocus sealed-tube technology and includes a new X-ray tube, new optics, and new alignment mechanism providing double the fluence and longer tube life compared to previous sources. A new user-inspired cabinet design includes additional space for an improved work environment and electronically controlled brightness of the cabinet interior and crystal lighting, which results in optimum video imaging for all types of crystal samples.



Rigaku XtaLAB Synergy single crystal X-ray diffractometer



The highly regarded [CrysAlis^{Pro}](#) software package is the nerve center of the new XtaLAB Synergy, tying together all the new improvements of speed and fluence through a highly parallelized architecture resulting in a blindingly fast system for generating 3D structures of crystalline materials.

About Rigaku Oxford Diffraction (ROD)

ROD was formed as the global single crystal business unit of Rigaku Corporation after the acquisition of the former Oxford Diffraction organization from Agilent Technologies in 2015. ROD is a leader in the field of single crystal analysis, both in the field of chemical crystallography as well as well as macromolecular crystallography. Formed in 1951, Rigaku Corporation is a leading analytical instrumentation company based out of Tokyo, Japan.

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