

# Rigaku to showcase its latest X-ray analytical instrumentation at JASIS 2016



Leading With Innovation

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## *Rigaku will exhibit latest technology at the 2016 Japan Analytical & Scientific Instruments Show*

**September 6, 2016 – Tokyo, Japan.** X-ray scientific, analytical and industrial instrumentation manufacturer [Rigaku Corporation](#) will be presenting its diverse lines of X-ray analytical products at the 2016 Japan Analytical & Scientific Instruments Show ([JASIS](#)). Rigaku will show over 20 instruments, including 6 new products. JASIS is among the largest expositions in Asia for scientific and instruments and will take place September 7 – 9 at the Makuhari Messe International Exhibition Hall in Chiba City, Japan.

X-ray diffraction (XRD), X-ray fluorescence (XRF), X-ray imaging, thermal analysis and Raman spectroscopy instruments from Rigaku will be presented at Booth #8A-101, in HALL 8. Rigaku will also be conducting several seminars and oral presentations during the event.

Among the XRD instruments presented will be the [Rigaku MiniFlex](#) benchtop X-ray diffractometer. Ideally suited for today's fast-paced XRD analyses, the fifth generation MiniFlex is a general purpose X-ray diffractometer that can perform qualitative and quantitative analysis of polycrystalline materials. It delivers speed and sensitivity through innovative technology enhancements such as the optional D/teX high speed detector coupled with a 600 W X-ray source.

The [Rigaku Supermini200](#) is the only commercially available benchtop wavelength dispersive X-ray fluorescence (WDXRF spectrometer), and will also be displayed. It features newly designed and simplified software and an improved footprint and combines all of the advantages of traditional WDXRF elemental analysis systems in a smaller, more economical package.

X-Ray microscopy (XRM) and computed tomography (CT) systems from Rigaku include the [Rigaku nano3DX](#) X-ray microscope and the new [Rigaku CT Lab GX](#) series of industrial 3D X-ray micro-CT imagers.

The nano3DX is a true X-ray microscope, with the ability to measure relatively large samples at high resolution. It images the entire sample from multiple angles, enabling reconstruction of a 3D image at 0.27  $\mu\text{m}$  resolution. The computer model allows the user to view sections at any point on any plane, providing valuable insights into the structure of the sample.

The CT Lab GX series of industrial 3D X-ray micro-CT imagers offers ultra-high-speed, high-resolution 3D CT suited for measurements of pharmaceuticals, medical devices, bones, ores, electronic devices, batteries, aluminum castings, and printed circuit boards.

Elemental Analysis by Energy Dispersive X-ray Fluorescence (EDXRF) offers for non-destructive measurement of sodium (Na) through uranium (U). EDXRF analyzers from [Applied Rigaku Technologies, Inc.](#) will also be presented. The new [Rigaku NEX DE](#) premium high-performance benchtop direct excitation EDXRF elemental analyzer was developed for heavy industrial applications and engineered to maximize flexibility and ease of use. It is equipped with a 60 kV, 12 W X-ray tube to deliver significant gains in elemental peak resolution and counting statistics, resulting in superior calibrations and precision for the most challenging measurements.

For non-destructive portable stress analysis for field and indoor use, the [Rigaku SmartSite RS](#) is especially designed for on-site analysis. It is capable of characterizing residual stress of metal parts ranging from large construction projects to individual products. The X-ray measuring head unit is controlled by a tablet PC via a wireless (Wi-Fi) connection, enabling remote operation of the device.

Total reflection X-ray fluorescence (TXRF) spectroscopy is a method by which an incident beam of X-rays just grazes the sample, delivering low-background noise, high-sensitivity measurement of ultra-trace elements. The [Rigaku NANOHUNTER II](#) benchtop TXRF spectrometer enables high-sensitivity ultra-trace elemental analysis, in liquids or on solid surfaces, to the parts-per-billion (ppb) level.

The [Rigaku Progeny](#) handheld Raman analyzer from [Rigaku Analytical Devices](#) is designed for chemical identification applications, including analysis of pharmaceutical materials and products, identification of explosives, toxic chemicals, narcotics and precursors and will also be demonstrated in the Rigaku booth.

### **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 1,400 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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