

## **Incoatec Launches The Next Generation Of Microfocus Sources For X-ray Diffractometry – The $\mu\text{S}^{\text{High Brilliance}}$**

GEESTHACHT, Germany – May 27, 2011 – Five years after the successful launch of the  $\mu\text{S}$ , we are proud to introduce the next generation of Microfocus Sources: the new Incoatec Microfocus Source  $\mu\text{S}^{\text{High Brilliance}}$ ! Its outstanding performance raises the standard of low-maintenance sealed tube solutions for crystallography, available for Cu, Mo and Ag radiation. Compared to the classic  $\mu\text{S}$ , the  $\mu\text{S}^{\text{High Brilliance}}$  shows an increase in intensity of up to 60 %. The  $\mu\text{S}^{\text{High Brilliance}}$  perfectly matches the new Bruker AXS D8 crystallography solutions also to be launched at the ACA Meeting in New Orleans.

What's new? The improved heat-management makes it possible to produce more photons in the same small spot. Tried and trusted, our state-of-the-art Quazar multilayer optics are ideal for 2-dim focusing or collimating. Of course, the  $\mu\text{S}^{\text{High Brilliance}}$  includes all familiar advantages of our previous  $\mu\text{S}$  systems: air-cooling, no moving parts, long lifetime without maintenance (3 years warranty). Furthermore, memory chips are built into tube, tube mount and optics, recording the real-time status of the components. These data allow for easier installation and change of components, and can be assessed online, making remote diagnostics faster, better and easier. The result is an absolutely reliable system. The  $\mu\text{S}$  fulfills highest safety standards: radiation safe, vacuum tested and fully compliant with Machinery Directive 2006/42/EC.

Dr. Carsten Michaelsen, Managing Director of Incoatec GmbH, stated: "Five years ago, Incoatec pioneered air-cooled high intensity microfocus X-ray sources that revolutionized X-ray crystallography. An amazingly high intensity in the range of traditional rotating anodes was achieved with our low maintenance  $\mu\text{S}$ . But we have not rested - over the past few years our in-house development groups for optics, mechanics and electronics have done a great job improving and optimizing all components. The result is our new very exciting  $\mu\text{S}^{\text{High Brilliance}}$ , which fulfills our customers needs: highest possible intensity, our well-known reliability and all of this in compliance with current safety requirements."

Dr. Michael Ruf, Global Product Manager for Single Crystal XRD at Bruker AXS, stated: "When we installed the new  $\mu\text{S}^{\text{High Brilliance}}$  we were astonished at the increase in intensity. Our standard test samples were literally saturated by the increased flux. The performance of the original  $\mu\text{S}$  was comparable to a classic rotating anode, now with the improved brilliance the performance becomes competitive even with a modern microfocus RAG."

### **About Incoatec GmbH**

Incoatec is a leading provider of multilayer optics and microfocus sources used in X-ray analytic equipment and synchrotron applications. Incoatec components and subunits enable scientists to form X-ray beams according to their individual requirements in various applications such as protein crystallography, high-resolution X-ray diffractometry and X-ray fluorescence spectrometry. For more information, please visit [www.incoatec.de](http://www.incoatec.de).

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