INCOATEC
innovative coating technologies

Upgrading Image Plates with the Unique Microfocus Source IμS

Old systems shining in new bright light …

marresearch mardtb

STOE IPDS 2T, University Mainz

Rigaku R-AXIS IV⁺⁺, University of Colorado Boulder

Imaging plates are widely used in protein crystallography and material science as reliable and robust X-ray detectors, often in combination with older rotating anodes. Our low-power Incoatec Microfocus Source IμS clearly outperforms such rotating anode X-ray generators. Together with the ease of use and the low maintenance, the air-cooled IμS is the perfect source for such imaging plate systems.

Don't get crushed by a noisy and hard-to-maintain rotating anode! Get in touch with us, and we will make your diffractometer shine brightly again.

Your upgrade options:

- Source upgrade for XRD, SCD, SAXS, and further more applications
- Cu, Mo, Ag, Co and Cr radiation (others on request)

Your benefits:

- No maintenance, only single phase power and no water cooling required
- 3 years warranty
- Easy adaptation to imaging plate systems
- Maximum installation down time of only 2 - 4 days
- Full integration into existing safety circuits, new safety concept development on request

… and everything becomes possible!

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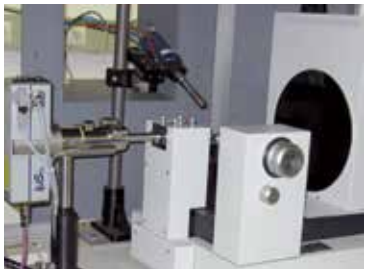
Your home lab diffraction system lacks intensity? Brighten it up with Incoatec´s state-of-the-art microfocus X-ray source IμS!
A significant increase in flux density of up to $2 \cdot 10^{10}$ ph/(s·mm^2) and smallest beam cross-sections of down to 95 μm can be obtained. With an IμS upgrade you will get the highest standard of quality, precision and safety *Made in Germany*. Our long-standing experience is based on more than 60 upgrades of IμS integrations into nearly all existing X-ray diffractometers worldwide. Your local service contact can be involved in the on-site installation. Additionally, Incoatec provides profound customer support during the whole project and thereafter. We take care!

Protein Crystallography with a Standard mar345 Image Plate System
Replacing an old Rigaku RU 200 by a Cu-IμS MX

Before the upgrade: Standard mar345 with Rigaku RU 200 (Prof. P. Charlier, Uni-versity of Liège).



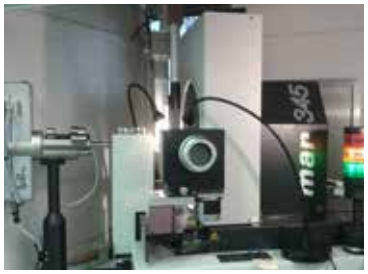
After the upgrade: Cu-IμS MX completely integrated into the safety circuit of the old RU 200 enclosure.

Protein Crystallography with a Rigaku R-AXIS IV^{++}
Replacing an old Rigaku RU 200 by a Cu-IμS MX

Before the upgrade: Rigaku R-AXIS IV^{++} with RU 200 (Prof. D. McKay, Uni-versity of Colorado Boulder).

After the upgrade: Cu-IμS MX fully inte-grated into the safety circuit of the hutch.

High-Pressure Crystallography
mar345 with Ag-IμS$^{\text{High Brilliance}}$



Ag-IμS$^{\text{High Brilliance}}$ and standard mar345 image plate joined in a customized enclosure. To allow for a 360° φ-rotation of the diamond anvil cell, the φ-axis was shifted away from the collimator block by about 40 mm (Dr. F. P. A. Fabbiani, University of Göttingen).

Is your diffractometer ready to shine brightly again?

Contact and challenge us!

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