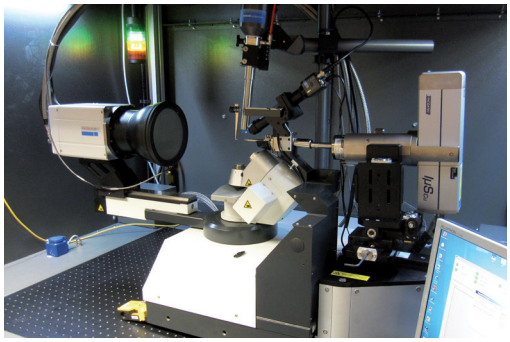
NEW

INCOATEC
innovative coating technologies

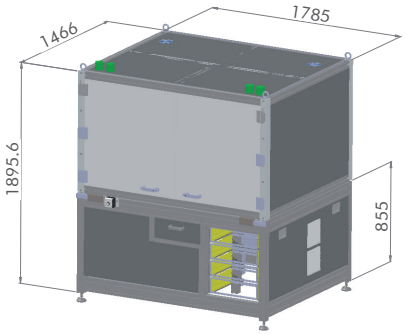
# The Incoatec X-ray Enclosure IXE

## The safe solution for IμS upgrades


*The Incoatec X-ray Enclosure IXE with IμS*



*IXE with IμS at customer site*




*IXE dimensions*

Are you thinking about purchasing a new X-ray source? Do you need an X-ray cabinet to ensure radiation safety? Take this chance to get the latest development – Incoatec´s X-ray enclosure IXE together with the outstanding microfocus X-ray source IμS! This combination ensures a most reliable and very bright X-ray source paired with the radiation protection and the highest safety standards of the IXE. Our understanding of highest quality, precision and safety ensure a high-end product made in Germany. Incoatec provides profound customer support before, during and after the installation of your new system. In short: we take care of everything!

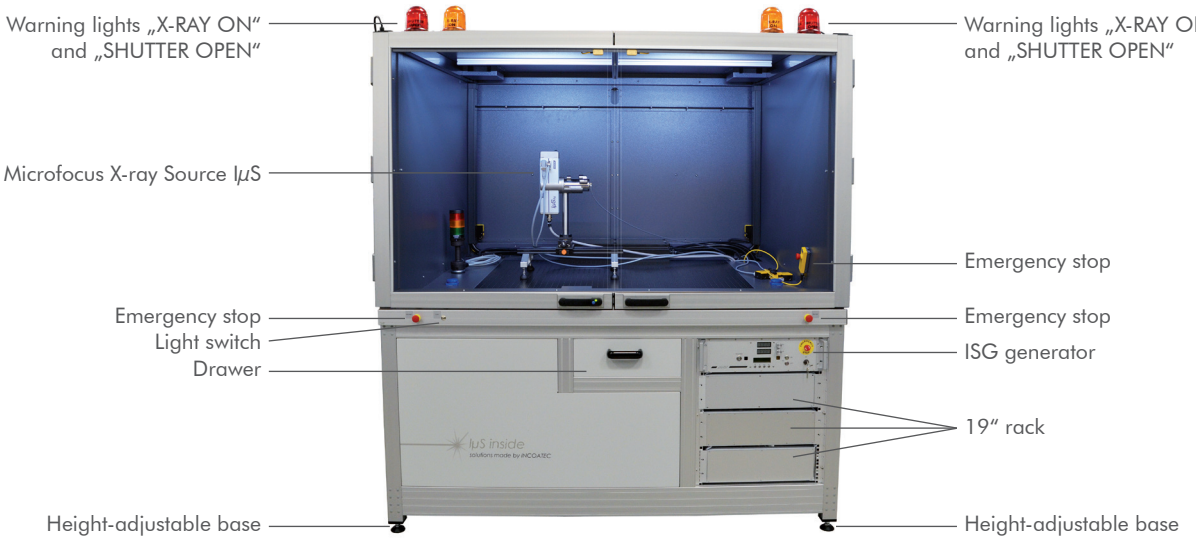
- Sufficient space for all common goniometers, detectors or dual wavelengths solutions
- Guaranteed radiation safety for all IμS X-ray sources
- Compliant with latest functional safety standards
- Removable panels for easy access
- Numerous radiation safe feedthroughs
- Space provided for a Dewar in the lower part of the enclosure
- Exclusively available with Incoatec´s stand-alone generator ISG and IμS X-ray source
- Breadboard for flexible experimental set-ups

IμS inside
solutions made by INCOATEC

Incoatec GmbH · Max Planck-Straße 2 · 21502 Geesthacht · info@incoatec.de · www.incoatec.de

INCOATEC
innovative coating technologies

The IXE hosts the experimental setup in a spacious enclosure that also provides room for dual wavelength solutions. The enclosure offers highest experimental flexibility with good accessibility and radiation safety. The X-ray cabinet has been designed for the use with an IμS and Incoatec´s stand-alone HV generator ISG. As a result the IXE offers a solution that will exactly match the demands of your research.




*Incoatec´s enclosure with IμS[High Brilliance] and ISG250*

## Specifications of IXE

| | |
|---|---|
| Dimensions | 1896 mm x 1785 mm x 1466 mm |
| Space within the enclosure | 969 mm x 1785 mm x 1466 mm |
| Weight | 684 kg |
| Operating temperature range | 10-40°C |
| Operating temperature gradient | 1°C per hour (for microfocus beam stability) |

## Safety Certifications and Values

| | |
|---|---|
| Electrical safety | DIN EN 60204-1:2006/A1-2009 |
| Functional safety | DOS 49-1:2005, DIN EN 61508,1-7 (VDE 0803):2011, DIN EN 61511,1-3:2005 |
| Radiation safety | Leakage < 0.5 μSv/h H* (10) measured at 44 W with a IμS-Ag plus Montel optics. Primary beam must impinge on one of the side walls. |

## The IμS

Incoatec´s X-ray source IμS contains a high brilliance microfocus sealed tube and either a 2D focussing or collimating multilayer optics, the latest type of Montel optics. It gives you a performance exceeding that of traditional 5.4 kW rotating anode sources, and is easier to handle than a conventional sealed tube system. More than 700 sources sold within less than 10 years are proof of outstanding performance and reliability with best value for money.

## The stand-alone HV generator ISG for IμS

The stand-alone generator is specially designed for the IμS and produced in-house. It consists of a high-voltage power supply, a safety board and a vacuum monitor. It complies with the latest functional safety standards and can be, for the ease of use, either operated locally or via remote control. No maintenance is required during product lifetime.

IμS inside
solutions made by INCOATEC