

Helios[™] S2



Compact High-Brilliant Microfocus X-Ray Source

Unisantis Europe GmbH offers Helios[™] S2 as a high-brilliant X-ray source in combination with proprietary **Kumakhov polycapillary X-ray optics**. This X-ray source is compact, user friendly and has touch screen control panel with USB connection. Helios[™] is suitable for many X-ray applications including integration into X-ray diffraction and XRF systems. The source ensures a focal spot of 150 μm or a quasi parallel beam (based on the optics used).

Features and Benefits

- Enhanced instrument performance
- Optimised beam collimation using patented Kumakhov polycapillary optics
- Air cooled low power X-ray tube
- Transportable and compact design
- The design provides the possibility of mounting x-ray tubes with different wavelengths
- Adjustable optics for beam alignment
- Changeable lens
- Changeable filters
- Improved radiation safety and mobility of X-ray instruments
- Can be utilised and adopted for analytical instruments manufacturers and academic researchers

Applications

- Universities and educational laboratories
- Research centres
- Replacement of aging x-ray tubes of old set-ups
- Integration into X-ray diffraction and XRF systems
- Material and life sciences



Specifications

X-ray tube voltage	50 kV (maximum)
X-Ray tube current	1mA
Anode load	30 W
Anode material	Cu or Mo
Electron spot size	50 µm
Cooling	Air
Radiation safety	Shutter system with warning lamp

Optics

Kumakhov X-ray polycapillary Lens	Focusing or collimating (optional)
Beam size	Dependant on lens used

General

Overall dimensions	13 x 45 x 30 cm (H x W x D)
Weight	
Control unit	9.6Kg
Tube unit	5.8Kg

Company profile

Unisantis Europe GmbH is a global leader in the design, development and manufacture of innovative world class X-ray polycapillary optics. Unisantis provides complete X-ray beam control solutions using proprietary technology that has particular applications in material characterization, life science and industrial analysis.

Unisantis offers both standard and custom X-ray polycapillary optics in a variety of configurations to cater wide range of customers' requirements.

Unisantis cooperates with international research scientific centres, institutes, universities, and sophisticated analytical instruments' manufacturers to provide optimised X-ray beam solutions; complemented by extensive customer support and mature processes with expert staff.

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