LUXBRIGHT



LUXBRIGHT IX1

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The IX1-160001 is a complete, fully integrated X-ray source with X-ray tube, high voltage power supply, control electronics and heat radiator in one compact unit. Applications include battery development and inspection, as well as additively manufactured or cast parts.

Key features:

- 160 kV, 100 W allowing quick acquisition in e.g. industrial CT.
- 50 µm resolution to detect small defects in mechanical parts, for example.



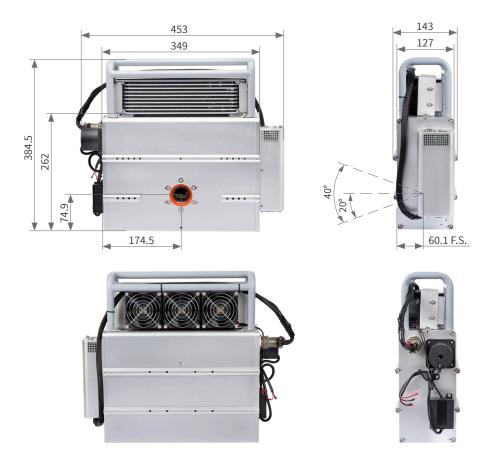
Affordable Microfocus

Inside the IX1-160001, there is a Luxbright microfocus tube. Proprietary design of the cathode side enables microfocus resolution, using a fixed anode, bi-polar X-ray tube.

The result is what we call affordable microfocus, expanding the use of microfocus today and tomorrow.

Luxbright IX1-160001

General	
Input Line Range	24 VDC ±2%, 7.3 A
Output kV	80 kV – 160 kV
Output mA	0.05 mA – 0.625 mA
Output Power	Max. 100 W
Radiation shield	Less than 0.5 mR/hr at 5 cm from the surface of the chassis as per FDA 21 CFR 1020.40
Safety and Regulatory Compliances	Designed to meet CE, IEC/EN61010-1 and EN61326-1.
Dimensions	Generator: 453 mm x 385 mm x 143 mm
Weight	23.4 kg
X-Ray Tube	
X-ray Tube Type	Borosilicate glass, Bi-polar, Fixed anode
Anode material	Tungsten
Anode angle	20°
X-ray Focal Spot Size	100 μm nominal
Imaging	
Spatial Resolution	$50\mu m$ (D13) spatial according to ISO 19232-5 & ASTM E2002
Focus to Object Distance (FOD)	60.1 mm
Beam Port	Cone beam: 40°
Operating Environment	
Operating Temperature	5°C to 40°C
Storage Temperature	-20°C to 85°C
Thermal Cut Off	60°C ± 3°C of oil temperature
Humidity	98% non-condensing
Connections	
PC Interface	RS-232 Serial or Ethernet RJ45
Interlock	9-pin Male Connector
Pump and Fans	Open-ended wires for 24 VDC 3.0 A
Software	
Direct control	PC software with GUI panel to set kV, mA etc.
Integration with external software	RS-232 Digital Communication Protocol



Luxbright helps customers to see what cannot be seen. Luxbright X-ray products and solutions enhance customers' X-ray applications in, for example, industrial CT. With advanced manufacturing technology, high-quality X-ray tubes are produced based on extensive experience and excellence. Development, production, and verification are all gathered under the same roof in Gothenburg, Sweden.

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www.luxbright.com | info@luxbright.com | +46 (31) 796 06 97 Hulda Lindgrens gata 6b, 421 31 Västra Frölunda, Sweden

