



X-ray module

Ultra Performance 225



Speed up throughput by getting details faster

Get shorter exposure and increased speed thanks to an increased power load and new anode target topology. Excellent image quality with sealed metal ceramic X-ray tube and ultra- fast implementation into your production line. The UP is also ideal for raising the speed limit of your existing solution with its increased nominal power load compared to an identical non-UP product.

Ultra-easy to use

Low maintenance costs mean lower total cost of ownership - and faster throughput with easy operation reduces the need for manpower. New anode target topology allows one setting for all operation modes with reduced power for cycling operation with longer exposure times. Get continuous operation without stopping for routine maintenance. Robust and stable sealed X-ray tube design enables hassle-free integration and simple operation with easy-to-use WebUI interface.

Reliability and quality

Robust ergonomic sealed design with a maintenance free tube allows operation in oily, dirty environments without loss of performance. Dose stability reduces decay over time for a longer lifetime. Depending on usage parameters, failure can be determined in advance of operation for predictive maintenance that fits your workflow.

comet
x-ray

Product Specifications UP 225

Nominal voltage	225 kV
Voltage range	50 - 225 kV
Focal spot *	0.4 mm
Nominal power	900 W
Inherent filtration	0.8 ± 0.1 mm Be
Target material	W
Target angle	11°
Radiation coverage	40° x 30°
Working point change	< 4 s
Absolute voltage accuracy	± 1 % of max kV
Long term voltage stability*	± 0.1 % of max kV
Temperature-induced drift on kV	± 40 ppm / °C
Absolute current accuracy	± 0.01 mA
Current reproducibility	± 0.2% of mA
Long-term current stability**	± 0.1 % of set mA
Temperature-induced drift on mA	± 50 ppm / °C
Communication interface	Ethernet
Typical dose rate decrease per 1000 cycles	< 0.1 %
Typical dose rate decrease per 1000 hours	< 0.1 %
High-voltage connector type on tube side	R24
High-voltage connector type on generator side	R28
Tube weight	10.7 kg
Tube dimensions D x L	124.5 x 279 mm
Generator weight	126 kg
Generator dimensions W x H x L	500 x 530 x 660 mm
Gapping spring-loaded terminal	2 rings visible, ~ 7 mm
Gapping non spring-loaded terminal	5.5 - 6 mm
Grease quantity for high voltage cable	1.2 ml (tube side) 1.4 ml (generator side)
Approvals	PTB pending SIQ pending MET-NRTL pending NFC 74-100 pending
Leakage radiation in 1 m distance	10 mSv/h

* According EN 12543

** Over 8h max. kV / power after 1h warm-up

General Information

For more information and instructions regarding operation and installation of iXRS X-ray modules, cooling, connection of the X-ray tube and radiation protection, please consult the iXRS operator manual.

iXRS Configuration

For your individual iXRS configuration, please consult our website.

Power Rating Diagrams

