



X-Ray Systems

iXRS-500HP/11

Compact and Powerful

The iXRS-500HP/11 joins Comet's unique range of X-ray modules for non-destructive testing application to increase your productivity. With the same space claim and weight as a standard 450 kV module the new iXRS-500HP/11 provides significant benefits for your X-ray application.

The iXRS-500HP/11 gives you the same trusted output power of the HP/11 X-ray tube series with an extended high-voltage range providing you a 15% higher maximum dose rate. This enables a better signal-to-noise ratio (SNR) for an improved digital imaging quality compared to standard 450 kV modules.

The stable performance allows for a wider range of scanning techniques in a multitude of application from 2D inspection to 3D additive parts enabling a reliable inspection of high-density materials and large components.

It All Comes Together

As the only manufacturer of both X-ray tubes and generators, Comet X-Ray simplifies your supply chain as your single point of contact.

We understand how vital it is that all the elements in an X-ray module work seamlessly together. All iXRS are functionally tested as a module before delivery to reduce integration and testing times. The test report guarantees your peace of mind.

A user-friendly interface gives you easy access to protocols to provide smoother workflows from installation to operation. When combined with easy access and control of key generator parameters it makes your processes swifter and more cost-efficient.

By connecting experience, technology, and the real-life challenges of the user's applications we are able to offer you a system that's built with your success in mind.

Product Specifications

iVario	500/1.5
Voltage Range	20 – 500 kV
Adjustment Increments (minimum step)	≤ 0.1 V
Accuracy	± 1 % of max kV
Reproducibility (at constant temperature)	± 0.01 % of max kV
Long-Term Voltage Stability ¹	± 0.1 % of max kV
Temperature-Induced Drift	± 40 ppm/°C
High-Voltage Ripple (with 10m high-voltage cable)	10 V/mA (min 40V)
Emission Current Range	0 - 15 mA
Adjustment Increments	≤ 0.01 mA
Absolute Accuracy	± 0.2 % of max mA
Reproducibility (at constant temperature)	± 0.002 mA
Long-Term Current Stability ¹	± 0.1 % of set mA
Temperature-Induced Drift	± 50 ppm/°C
Maximum Power	1500 W
kV-Ramp-up and Ramp-down Time between two Working Points	< 2.0 s
Interfaces	
High-Voltage Connector Type	R28
Data / Control	Ethernet / RS-232
Dimensions	
Dimensions (HxWxL)	500x970x660 mm
Weight	249 kg
Approvals	CE

¹ over 8h at 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:
xray.comet.tech/ixrs-configurator

Comet AG
3175 Flamatt
Switzerland
xray.comet.tech



Product Specifications

Nominal tube voltage MXR-500HP/11	500 kV
Power rating (all modes)	700 W 1500 W
Focal spot acc. ASTM E1165-12	0.4 mm 1.0 mm
Filament current, max.	4.1 A 4.2 A
Filament voltage, typical	2.3 V 6.2 V
Inherent filtration	3 mm + 2 mm Be
Target material	W
Target angle	11°
Radiation coverage	40° x 30°
Leakage radiation, max. at loading factors in 1m distance	10 mSv/h (500 kV; 3 mA)
Weight	105 kg
Terminal type	R28
Gapping spring-loaded HV-cable	2 rings visible (~7 mm)
Gapping non-spring-loaded HV-cable	5.5 - 6 mm
Grease quantity for HV-cable terminal	1.4 ml

Power Rating Diagrams

Power rating at max. filament current

