



IXS SERIES

High Frequency Integrated X-Ray Generator



The IXS series is an exceptionally compact, highly reliable line of high voltage x-ray generators with superior stability performance, capable of operating under a wide range of conditions.

The X-ray generator integrates the high voltage inverter, filament supply, X-ray tube and heat exchanger into a single unit. Innovative design offers a versatile platform that allows for the options of fan or cone beam, different focal spot sizes, and flexible location of beam port, heat radiator, and control card. The product is operated through user friendly RS232 digital interface. For sales information, email: IXSales@vjt.com.

FEATURES:

Compact

Self-Cooled

Radiation-Contained

Superior Stability & Reliability

TYPICAL APPLICATIONS:

Medical Applications

- Bone Mineral Densitometry
- Fluoroscopic Radiography
- Mammography
- Dental CT

Industrial NDT

- Food and Packaging Inspection
- Security Inspection - Explosive Detection
- Thickness Gauging
- Electronics Component Inspection

SPECIFICATIONS:

Input Line Range:

90 – 264 Vac, 50/60Hz

Output KV Range:

Models available from 10kv - 160kv

Output mA Range:

Models available from 100uA – 50mA

Output Power:

500w continuous maximum
3kw peak power

Voltage Regulation:

Load: <0.1% at max KV output over the Output mA Range
Line: <0.1% at max KV output over the Input Line Range
(Tighter spec available upon request)

Current Regulation:

Load: <0.1% at max mA output over the Output KV Range
Line: <0.1% at max mA output over the Input Line Range
(Tighter spec available upon request)

Ripple:

0.5% p-p of maximum output
(Tighter spec available upon request)

Temperature Coefficient:

Typical <100ppm/°C
(Lower temperature coefficient available upon request)

Repeatability:

<0.5% for both KV and mA output

Output Risetime:

From 100ms to TBD (customer specified)

X-Ray Tube:

Tube Type: Glass

Focal Spot Size:

Range from 50um – 2mm;
Standard Size 0.8mm x 0.8mm
(Other sizes available upon request)

Target Material: Tungsten

Beam Geometry:

Fan Beam 80°, wider angle available upon request
Cone Beam up to 60°
(Other configurations available upon request)

Radiation Shield:

<0.5mR/hr at 5cm from the surface of the chassis at maximum KV and mA per FDA21 CFR 1020.40 Requirement

Cooling:

Self-cooled. No additional external cooling is required for up to 500w continuous power

Ambient Temperature:

Operating: 0°C to 40°C
Storage: -40°C to 70°C

Dimensions:

415mm (L) x 143mm (W) x 392mm (H) with heat radiator
415mm (L) x 143mm (W) x 262mm (H) without heat radiator
240mm (L) x 144mm (W) x 189mm (H) for 100kV/100W model

Weight:

27kg/60lbs (including control unit) with heat radiator
24kg/54lbs (including control unit) without heat radiator
Aprx: 12 kg/25lbs for 100kV/100W model

Safety and Regulatory Compliances:

UL
EN61010

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X-Ray Generator Features



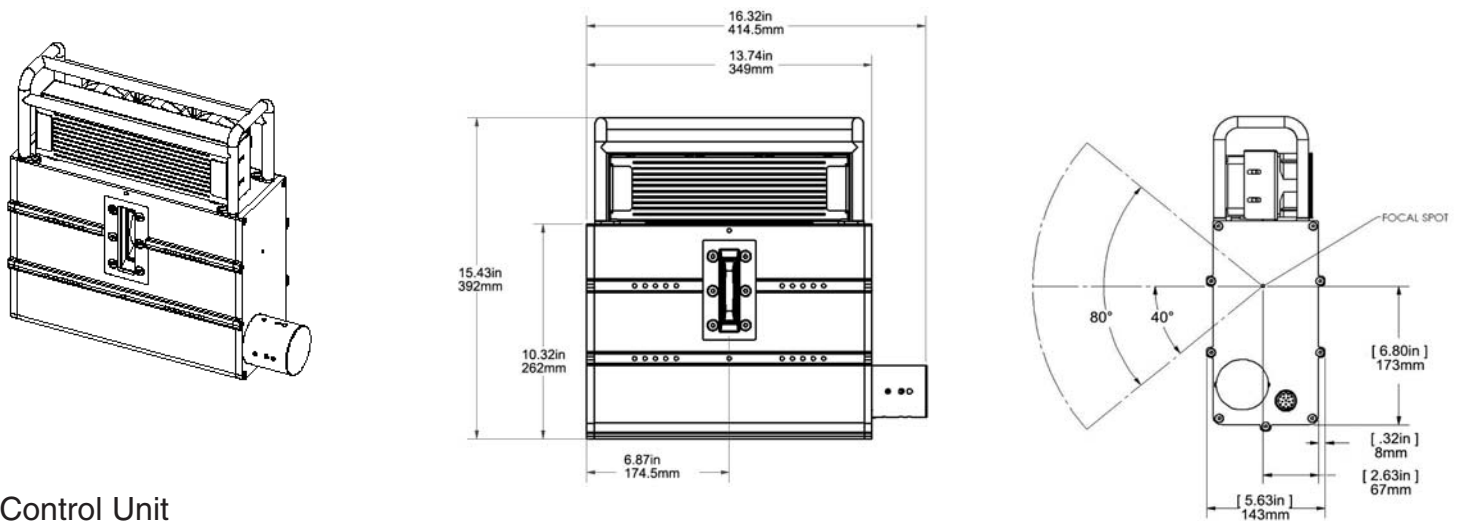
Monitor and control of the generator with a user friendly Graphic User Interface (GUI) through computer RS-232 digital interface.



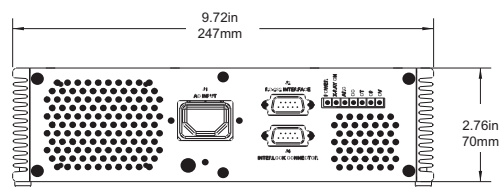
160kV / 200W CONE BEAM
(shown without control unit)



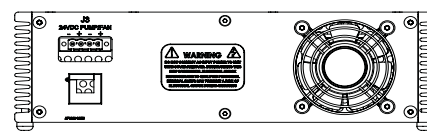
160kV / 500W FAN BEAM
(shown without control unit)



Control Unit



FRONT



BACK