IXS0808
80 kV, 80 W

Compact Multipurpose Sources

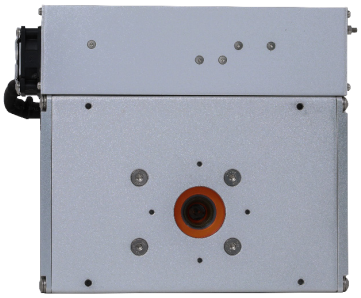
Applications

Food Inspection Systems, Security Scanners, Industrial NDT, Product Quality Monitoring

Key Features

- Integrated High Voltage Generator, X-ray Tube, and Control Electronics
- Water Cooled Option for Improved Stability
- Compact and Robust
- Radiation Shielded
- User Friendly RS232 Digital Interface

Specifications	
Input Line Range	90–264 VAC, 50/60 Hz
Output kV	20–80 kV
Output mA	0.05 - 1.0 mA
Output Power	80 W continuous maximum
Voltage Regulation	Load: <0.2% at max kV output over the output mA range Line: <0.2% at max kV output over the input line range
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
Ripple	kV: <0.5% p-p of maximum output mA: <0.5% p-p of maximum output
Repeatability	kV: <0.5% mA: <0.5%
Stability	kV: <0.01% per °C over the operational ambient temperature range
Overshoot	kV: ≤5% of rated output
Output Rise Time	Standard Rise Time ≤500 msec. from 10%–90% of max rated output
Cooling	Air Cooled (Water cooled option also available)
Radiation shield	Less than 0.5 mR/hr at 5 cm from the surface of the chassis as per FDA 21 CFR 1020.40

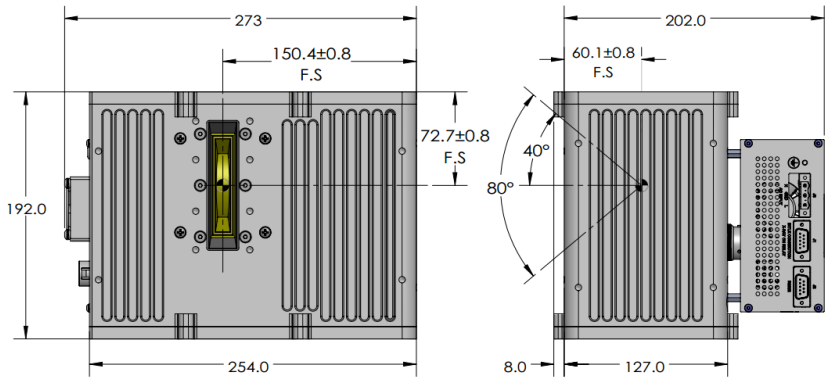


Cone Beam X-ray Generator

Control Unit

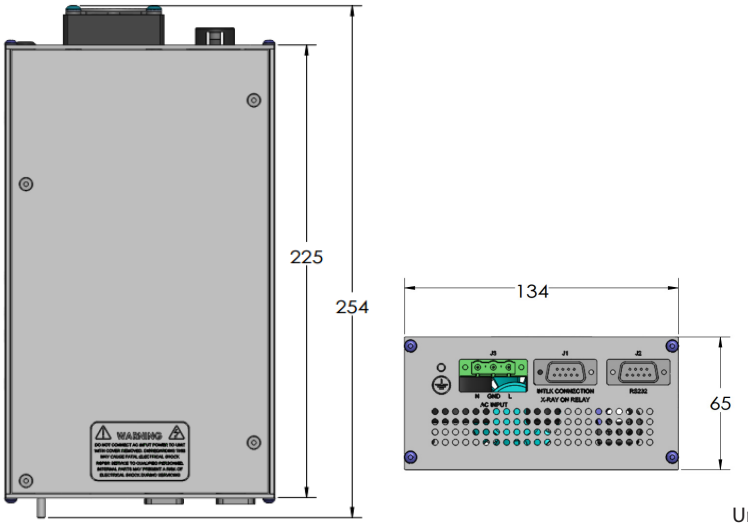
Safety and Regulatory Compliances	Designed to meet CE EN/UL61010-1 and EN61326-1
Dimensions	Generator: 273mm x 192mm x 127mm Control unit: 254mm x 134mm x 65mm
Weight	Generator: 11 Kg Control unit: 2 Kg
X-ray Tube	
X-ray Tube Type	Glass
X-ray Focal Spot Size	0.8 nominal as per IEC60336
Beam Port	Fan beam: 80° X 10° max Cone beam: 30°
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

Generator



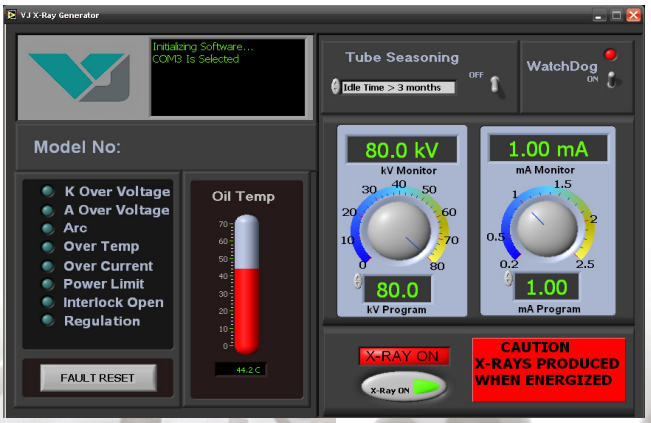
Unit: mm

Control Unit



Unit: mm

Graphical User Interface



LED Indicators

X-RAY ON	Illuminated when interlock is closed and HV is enabled
POWER	Illuminated when power is present
OV	Over voltage fault
OP	Illuminated when selected power exceeds the rated power
OC	Over current fault
ARC	ARC-ing fault
OT	Illuminated when oil temperature exceeds 60ºC ± 3ºC

J1: Interlock Connection/ X-ray On Relay

Pin Out	Name
1	Interlock out
2	Interlock in
3	X-ray On Relay contact common
4	X-ray On Relay contact N/C
5	X-ray On Relay contact N/O
6	N/A
7	N/A
8	N/A
9	N/A

J2: RS232 Interface

Pin Out	Name
1	N/A
2	TX-(Transmit)
3	RX+(Received)
4	N/A
5	Signal Ground
6	N/A
7	N/A
8	N/A
9	N/A

J3: AC Input

N	Neutral
GND	Ground
L	90-264 VAC Input