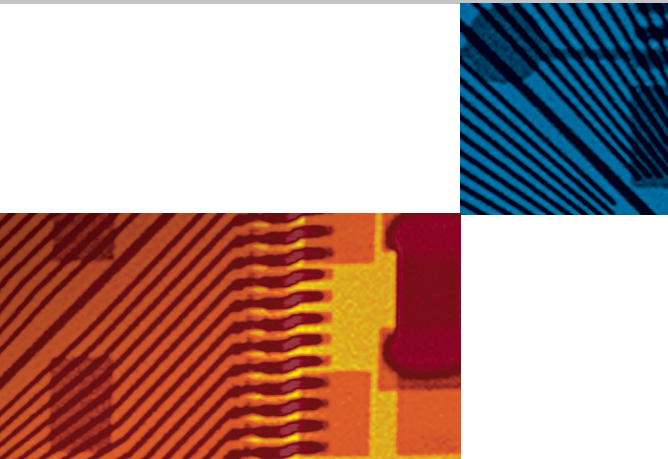


**Thermo Electron Corporation—the one source for x-ray generation. Thermo's Kevex X-Ray line has been providing quality x-ray sources to x-ray markets since 1978. We are known and respected worldwide for our innovation in x-ray source integration and microfocus technology.**

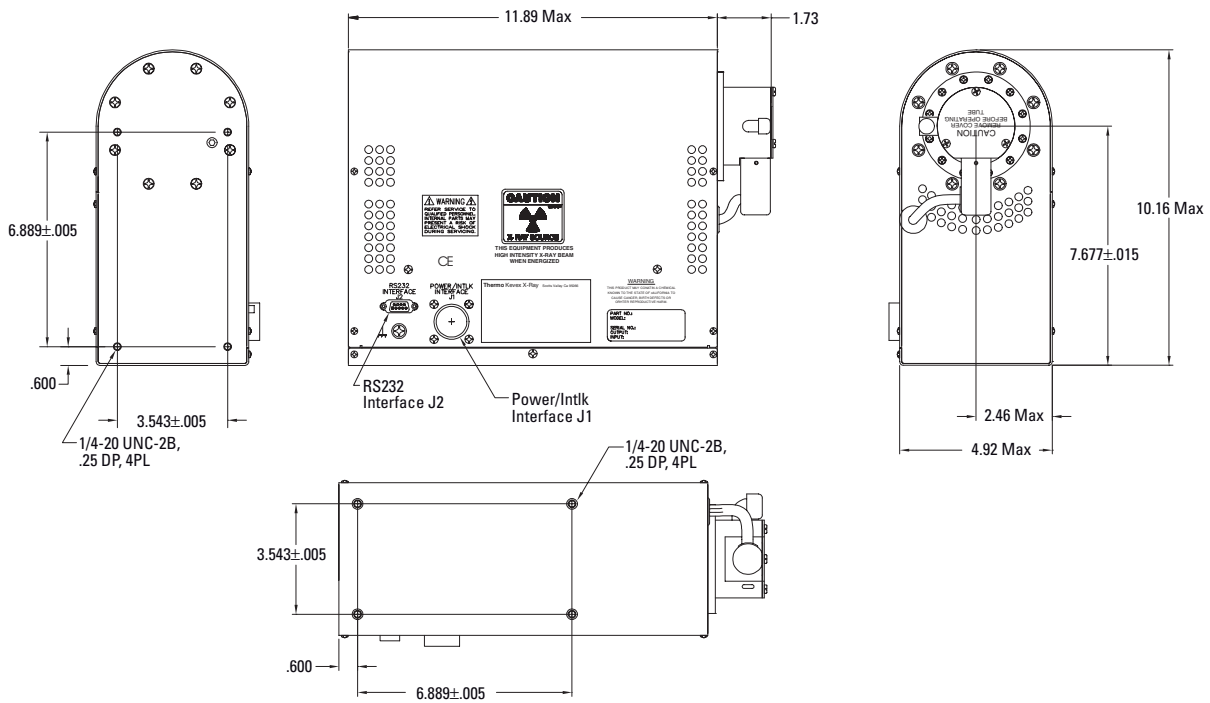
## Kevex™ PXS10-65W

MicroFocus  
130 kV



The Kevex PXS10 is an integrated 130kV MicroFocus X-Ray source, comprised of an end window tube packaged with a power supply and digital controller. The Kevex PXS10 can be operated with either a Windows®-based Kevex GUI (graphical user interface), or by a host computer via RS232 port, utilizing the Product Interface Specification.

Installation and set-up is straightforward. The user simply mounts the unit into a shielded X-Ray cabinet and connects the power and RS232 cables. Safety interlocks provide for x-ray shutoff in the event of enclosure compromise.



**All dimensions in inches**

**CERTIFICATIONS**

CE Directives 73/23/EEC (Low Voltage) and 89/336/EEC (EMC).  
Includes EN 61010-1, EN 55011, EN 50081-1, EN 61000-4.

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ELECTRON CORPORATION

## Kevex PXS10-65W

Operating Voltage Range:	20 to 130 kV $\pm$ 0.5%; > 45 kV to achieve full beam current and meet specifications.
Maximum Power:	65 Watts @ 130 kV
Maximum Beam Current:	0.500mA $\pm$ 2%
Spot Size:	$\leq$ 10 $\mu$ @ 8 watts, 45 -130 kV $\leq$ 22 $\mu$ @ 16 watts, 45 -130 kV $\leq$ 48 $\mu$ @ 32 watts, 70 -130 kV $\leq$ 100 $\mu$ @ 65 watts, 130 kV
Spot to window spacing:	14 $\pm$ 1mm
Target Material:	Tungsten
Window Material and Thickness:	Be: 254 $\pm$ 50 $\mu$ (.010")
Window Diameter (uncollimated):	19 $\pm$ 1mm (.760")
Cone of Illumination:	$\geq$ 53°, typically 54 to 55° @ 130kV.
Ambient Temperature and Humidity:	0 to 32°C, 0 - 95% RH, up to 5000 feet
Method of Cooling:	Internal fan. Adequate air circulation around unit must be provided.
Shielding:	X-Ray leakage behind the x-ray tube is less than 0.5mR/hour, measured one inch away. Measured with Victoreen 190
Weight:	approximately 34 lb.
Input Power:	24 VDC, 3 amps

### Features

- } Internal protection for the x-ray tube to prevent damage to target when changing kV or mA.
- } Auto-conditioning (warm up) to ramp unit up slowly depending on how long unit has been off.
- } User Interface: All control is through the RS232C port. The unit can be operated using either a Thermo supplied Windows-based graphical user interface, or by utilizing the Product Interface Specification (P/N 5973-3036). Status and diagnostics available on the RS232C interface are:
  - Operating status of unit (Warm up, Interlocks, X-Ray On, etc.)
  - Warm up time remaining
  - Spot size
  - X-ray tube temperature
  - Event log for arc, anode leakage, interlock opened while x-rays on, etc.

### Input/Output Connectors

J1 is a 16 pin Amp #206036-8 low voltage connector for DC power, interlocks, and internal relays.

J2 is a 9 pin Amphenol 841-17-DEFR-A9S female "D" connector for the RS232C port. RS232C interface

specifications:	Baud rate	38400
	Data bits	8
	Stop bits	1
	Parity	none
	Xon/off	none

