

SIDE WINDOW MICROBOX 100

INTEGRATED MICROFOCUS TUBE & POWER SUPPLY



Our **Side Window Microbox 100** provides ultimate convenience in a small but mighty compact design. The **Side Window Microbox 100** is fully integrated, including a side window Micro Focus X-Ray Tube, high voltage power supply*, and controller.

Features include:

- **Power up to 15W and 100kV.**
- **Top of its class in weight and size.**
- **Small focal spot size and short FOD** for optimal magnification.
- **Industry-leading brightness and high-contrast 2D & 3D images** using diamond technology.
- **Windows based UI or API operation.**

*24V power supply required

APPLICATIONS



Electronic Component Inspection



Semiconductor Inspection



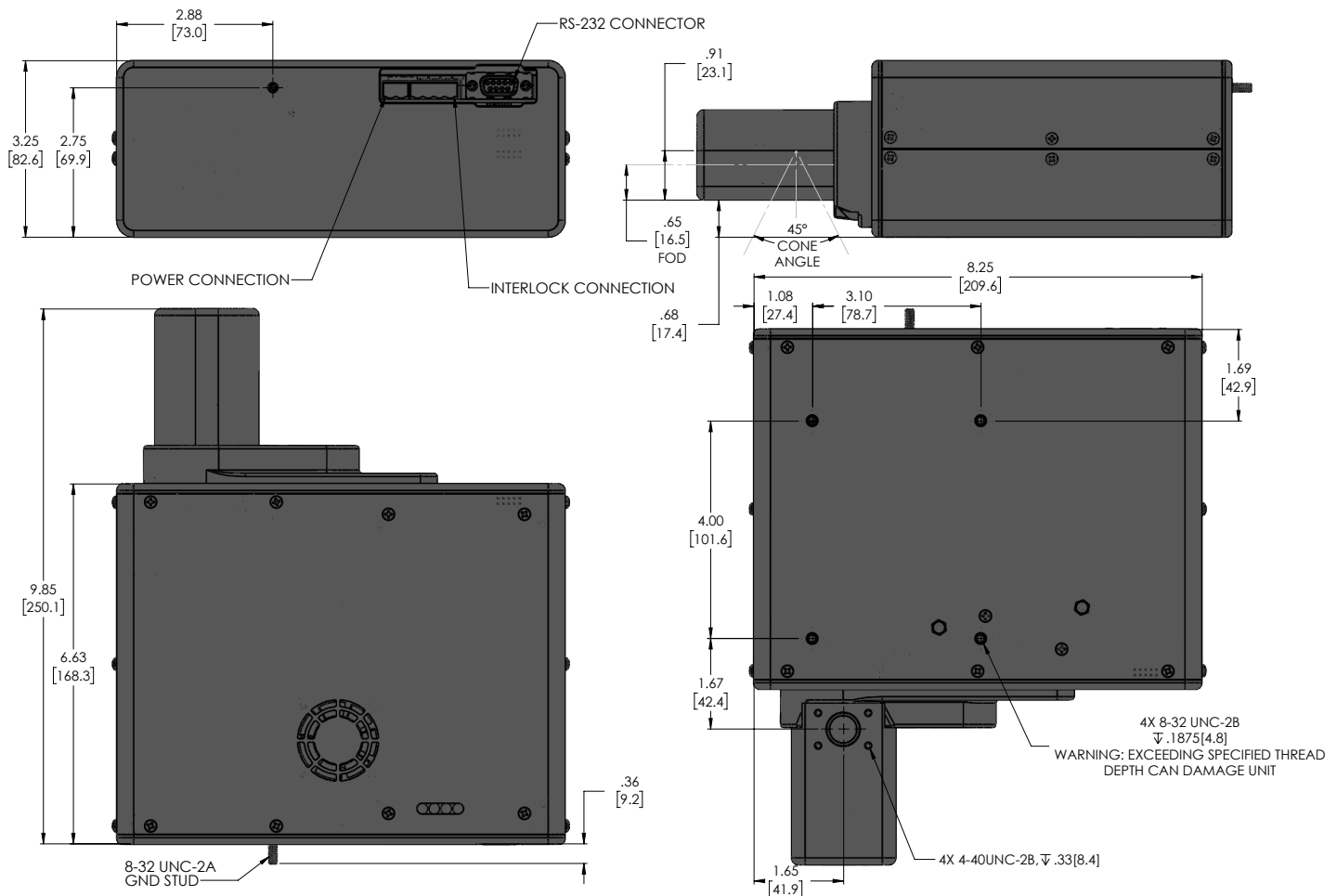
PCB Inspection



Pouch Battery & Jelly Roll Inspection



Micro-CT Imaging for Life Science & Industrial Applications



SPECIFICATIONS

Voltage Range	20kV-100kV
Max. Power	15W
Input Power	24 VDC/2A
Window Thickness	0.254mm (0.010in) Beryllium
Beam Angle	45°
Focal Spot	5 μ m ¹
FOD (spot to window spacing)	7mm (0.276in)
Target Material	W, Cu ²
Weight	4.5kg (11.9lbs)
Communication Interface	RS-232C (9-pin D-sub connector)
Operation Ambient Temp.	+10° to +40°C (8W cont.), max. 28°C (15W cont.)
HV Ripple (at max load)	0.1% of Output Voltage (kVp-p)
Voltage Line Regulation	Load: \pm 0.25% of Max Voltage, no Load to Full Load Line: \pm 0.25% of Max Voltage Over Input Voltage Range
Current Line Regulation	Load: \pm 0.25% of Max Current Over Output Voltage Range Line: \pm 0.25% of Max Current Over Input Voltage Range
Recommended Cooling	Internal fan with adequate flow is sufficient for ambient temps up to 28°C, External fan to window recommended
PC Requirements for Software	Windows 7, 8.1, 10, 11

¹ Refer to Figures 1 and 2 to determine optimal operational parameters.

² Other target materials available upon request.

GENERAL

The customer is responsible for controlling the high voltage and filament current and designing the cooling system. Selecting an appropriate power supply is crucial to protect the X-ray tube from overcurrent and overvoltage. Sufficient cooling is required when operating the X-ray tube. Failure to do so may damage the tube and radiation protection, posing a hazard.

RADIATION PROTECTION

The customer is responsible for radiation protection and must ensure compliance with local regulatory requirements and limit values.

FIGURE 1

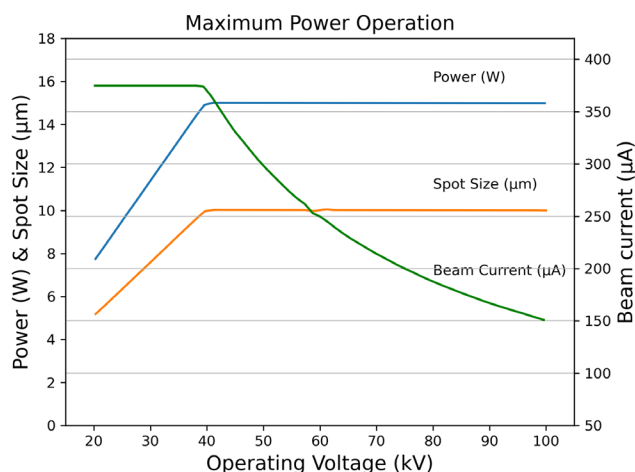
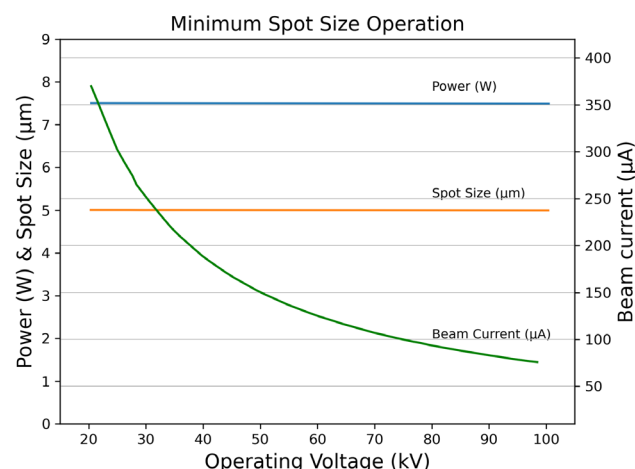


FIGURE 2



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