MICRO X-RAY INC.

END WINDOW MICROBOX 100

INTEGRATED MICROFOCUS TUBE & POWER SUPPLY

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

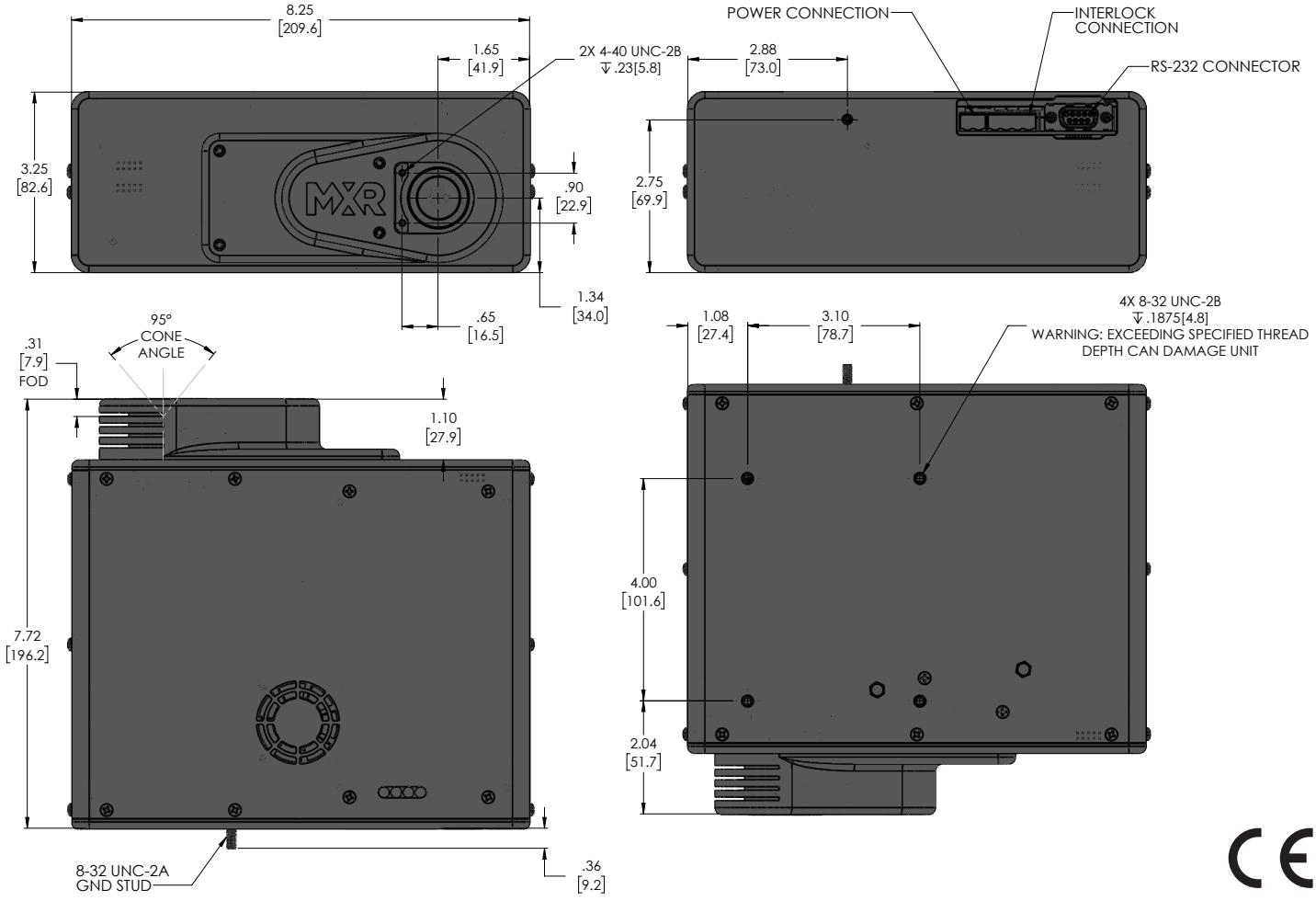
Features include:

- **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*



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SPECIFICATIONS

Voltage Range	20kV-100kV
Max. Power	15W
Input Power	24 VDC/2A
Window Thickness	0.254mm (0.010in) Beryllium
Beam Angle	95°
Focal Spot	5µm[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:** ±-0.25% of Max Voltage, no Load to Full Load **Line:** ±-0.25% of Max Voltage Over Input Voltage Range
Current Line Regulation	**Load:** ±-0.25% of Max Current Over Output Voltage Range **Line:** ±-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

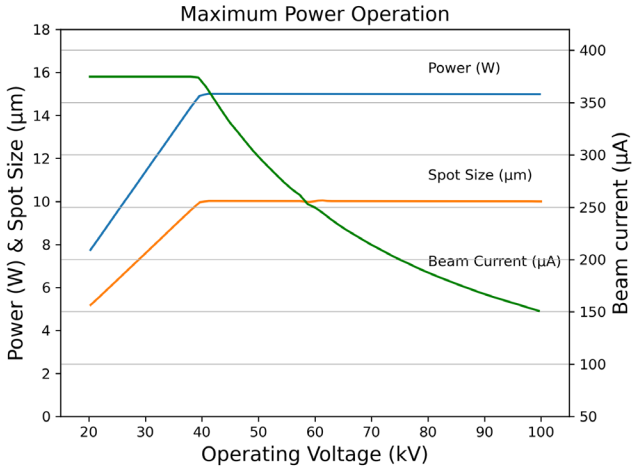
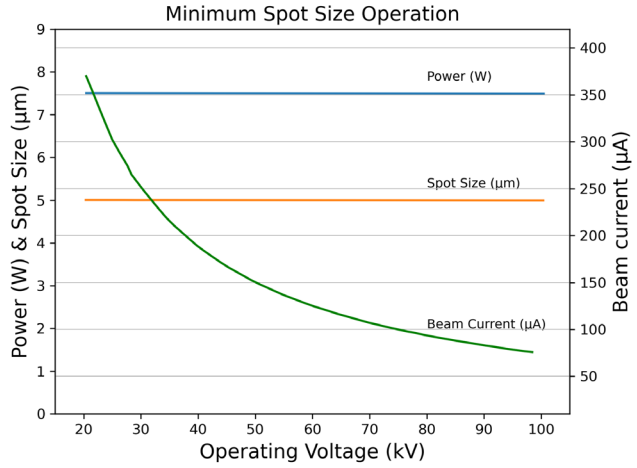


FIGURE 2



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