CX20 MICROFOCUS X-RAY SOURCE



The CX20 series from Curpow, Inc. provides an effective solution for demanding imaging and inspection tasks within the production environment. Primary applications include battery inspection, for both EV (electric vehicle) cells and relatively small and simple batteries such as the lithium cells used to power smart devices. More generally, CX20 sources are used in other areas of component inspection, in non-destructive testing and for micro-CT (micro computed tomography). A wide beam variant of the core model provides the flexibility to tailor magnification and field of view for individual requirements. Both CX20 options have a digital interface and are specified for high power and high magnification, with a rugged design that delivers the reliability required for routine industrial measurement.

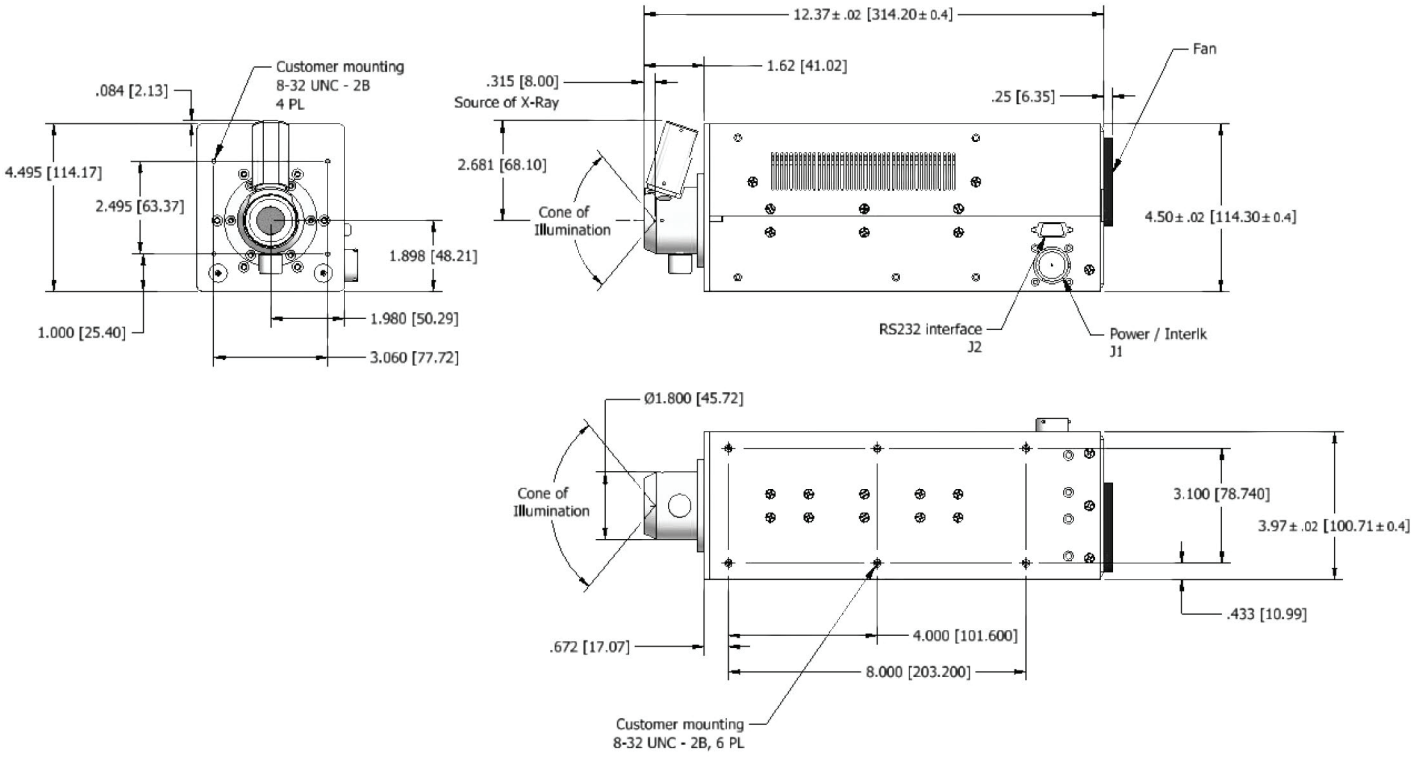
KEY FEATURES

- **Small, round spot:** to produce high-resolution, low distortion, high-quality images
- **Short FOD (focal object distance):** to deliver excellent geometric magnification and short image acquisition times
- **Large field of view:** to aid magnification and reduce image acquisition times
- **High flux and spot location stability:** to ensure consistent high-quality imaging with minimal temporal variation
- **Automatic source conditioning:** to minimize the risk of damage as the source comes up to operating conditions
- **Digital interface:** to enable easy operation with access to diagnostics and operating logs to ensure optimal on-going performance

SPECIFICATIONS

CX20NB X-ray Source	
Maximum tube voltage	110 kV
Operating voltage range	40 – 110 kV
Tube current operational range	0 – 250 µA
Maximum power output	25W
Minimum focal spot size	5µm
X-ray beam angle	90°
Focus to object distance (FOD)	7.5 ± 1.0 mm
Target material	Tungsten
X-ray output window material	Beryllium
Weight	5.7 kg
Ambient temperature and humidity	0–32 °C, 0 –95% RH, up to 1,500 m (5,000ft) altitude
Method of cooling	Internal fan is sufficient for ambient temperature up to 32 °C. Adequate air circulation around unit must be provided
Input power	24-27V, 4A max
Control interface	RS-232, digital

Outline drawing of CX20NB X-ray Source



SPECIFICATIONS

CX20WB X-Ray Source	
Maximum tube voltage	110 kV
Operating voltage range	40 – 110 kV
Tube current operational range	0 – 250 µA
Maximum power output	25 W
Minimum focal spot size	7 µm
X-Ray beam angle	125 °
Focus to object distance (FOD)	7.5 ± 1.0 mm
Target material	Tungsten
X-Ray output window material	Beryllium
Weight	5.7 kg
Ambient temperature and humidity	0 – 32 °C, 0 – 95% RH, up to 1,500 m (5,000 ft) altitude
Method of cooling	Internal fan is sufficient for ambient temperature up to 32 °C. Adequate air circulation around unit must be provided
Input power	24-27V, 4A max
Control interface	RS-232, digital

Outline drawing of CX20WB X-Ray Source

