

XR-100CR, 6 mm² x 500 μm X-Ray Detector

The XR-100CR 6 mm² x 500 μm Si-PIN thermoelectrically cooled detector is the latest addition to Amptek's successful line of X-Ray detectors that have revolutionized the industry. With a large 6 mm² detection area and the high efficiency of 500 μm thickness, this detector system combines high performance and practical, cost effective solutions to many applications.

Features

- Area: 6 mm²
- High Efficiency 500 μm thick
- 145-175 eV FWHM Resolution @ 5.9 keV (20μs)
- 145-175 eV FWHM Resolution @ 5.9 keV (12μs)
- 175-210 eV FWHM Resolution @ 5.9 keV (6μs)
- P/B Ratio: 6200/1
- 1,0 mil Be window (opt. 0,5 mil Be window)
- No Liquid Nitrogen
- Internal Silver (Ag) Collimator
- optional internal Multilayer Collimator
(The base metal is 100 μm of tungsten (W), the first layer is 35 μm of chromium (Cr), the second layer is 15 μm of titanium (Ti), and the last layer is 75 μm of aluminum (Al))

Applications

- X-Ray Fluorescence
- OEM and Process Control
- Research and Teaching
- Nuclear Medicine
- Environmental and Nuclear Plant Monitoring

[Price Info / Quotation / Questions](#)