



## SYDOR Vacuum X-Ray CCD Camera

The Sydor Vacuum X-Ray CCD is a compact camera designed to operate in a vacuum environment. The camera utilizes a 16MP sensor with 9 micron pixels for the highest resolution in the most demanding scientific applications. With flexible binning, readouts and sensitivity from x-ray/uv, to optical wavelengths, the Sydor x-ray camera is capable of performing in many different applications such as plasma physics, deep UV lithography, x-ray microscopy, and x-ray spectroscopy. The configuration can also be customized to your unique application.

### SYDOR VACUUM X-RAY CCD CAMERA:

### KEY PERFORMANCE PARAMETERS

CCD Image Sensor	KODAK KAF-16801 high-resolution, full-frame image sensor Can be fiber bonded
CCD Format	4096 x 4096 9µm x 9µm pixels 100% fill factor 37mm x 37mm imaging area
CCD Read Noise	15 e <sup>-</sup> rms @ 1 MHz
Read Out Rate	Up to 1 MHz
Output Sensitivity	13 µV/e <sup>-</sup>
Binning	1x1, 2x2, 4x4
Resolution	14 bits
Thermoelectric Cooler	0°C in Vacuum
Vacuum Compatibility	10 <sup>-5</sup> Torr
Size	CCD Head 2.475" (W) x 4.22" (H) x 4.688" (L) (plus coolant lines)
Other Features	Fiber Communication through Vacuum Separate controller with Ethernet Ethernet control of readout rate, arming/trigging, binning, and temperature

Specifications subject to change at any time