

lambda350K



Large Area **Medipix3** Based Detector Array

a DESY spinoff company



Designed for high-end X-ray imaging, LAMBDA cameras are the fastest large format detectors using the Medipix3 chip.

Pioneered by one of the leading research institutes of the world LAMBDA cameras provide the speed and resolution for even the most demanding tasks.

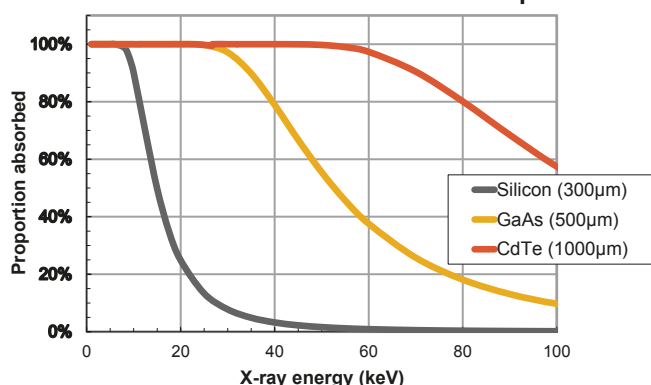


LAMBDA 350K specifications

Sensor	GaAs	CdTe
Sensor thickness	500 μm	1000 μm
Pixel size	55 μm x 55 μm	
Detector layout (3 modules)	1 sensor	1 sensor
No of Pixels	512 x 764	
Dynamic range	24 bits maximum (dependent on mode)	
Energy range	8 – 75 keV	8 – 150 keV
Adjustable threshold range	5 – 50 keV	5 – 75 keV
Frame rate	Up to 2000 Hz (12-bit mode)	
Readout time	No readout time in 12-bit mode, 1 ms in 24-bit mode	
Point spread function	1 pixel FWHM	
External trigger / gate	3.3V TTL	
Software interface	Tango server or open-source hardware library available	
Cooling	Air cooling	
Dimensions (L*H*W)	405 x 100 x 120 mm ³	
Weight	5 kg	
max countrate with correction (10% dev)	2.5 x 10 ⁸ counts/mm ² /s	

Specifications are subject to change without notice

LAMBDA sensors: Photoelectric absorption



The LAMBDA 350k pixel detector is available for hard X-ray detection with GaAs or CdTe sensor layers. This provides high quantum efficiency at high X-ray energies (75% at 40keV for GaAs, and 75% at 80keV for CdTe), while retaining all other specifications of the 750k system with silicon sensor.

Contact us any time at info@x-spectrum.de or visit us at www.x-spectrum.de

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