lambda60K



Large Area Medipix 3 Based Detector Array

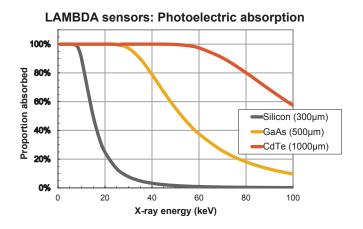


Designed for high-end X-ray imaging, the LAMBDA 60K provides fast, sensitive detection in a compact package using the Medipix3 chip.

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



Sensor	Silicon	GaAs	CdTe
Sensor thickness	300 μm	500 μm	1000 μm
Pixel size	55 μm x 55 μm		
Detector layout (I module)	l sensor		
No of Pixels		256 × 256	
Dynamic range	24 bits maximum (dependent on readout mode)		
Energy range	6 – 25 keV	8 – 75 keV	8 – 150 keV
Adjustable threshold range	4 – 40 keV	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	I 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)	TBA		
Weight		TBA	
max countrate with correction (10% dev)		2.5×10^8 counts/mm ² /s	



The LAMBDA pixel detector is available with different sensor layers for different X-ray energy ranges. For hard X-ray detection, the GaAs and CdTe LAMBDA systems replace the standard silicon sensor layer in LAMBDA. 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.

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

X-Spectrum enabling research