

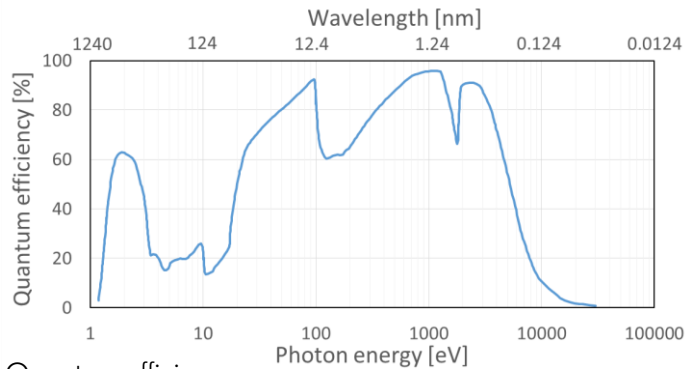
Features

Industry-leading sensor

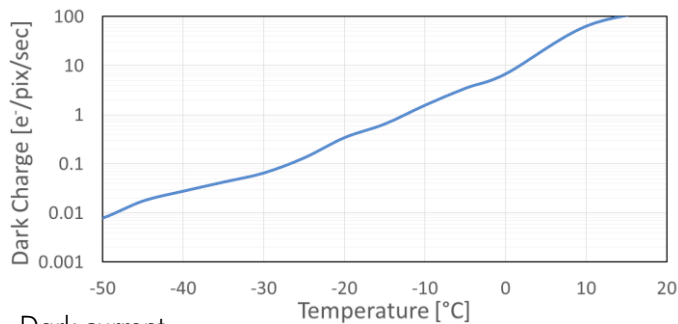
- back-illuminated sensor from e2v with quantum efficiency of >95%
- TE cooling to 80°C below ambient
- low-noise electronics for excellent performance in low-light conditions
- standard sensor format 1024x256 pixels, other sensor formats available on request

Connectivity

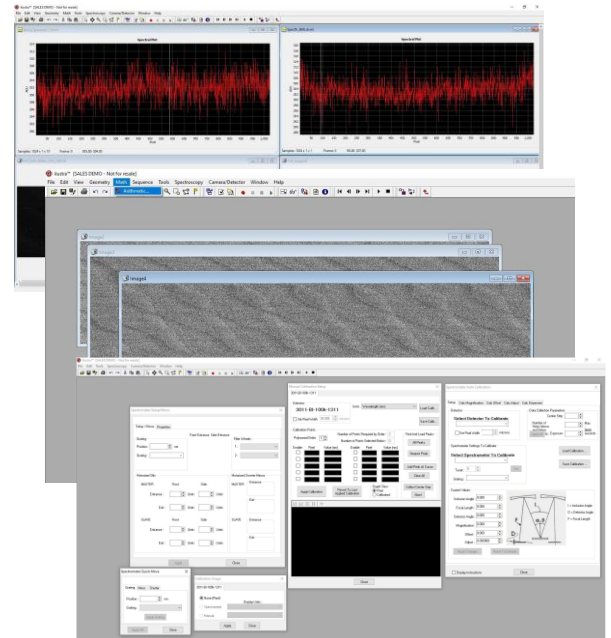
- USB and native Ethernet interface for robust communication
- intuitive software package with sophisticated spectroscopy functionalities
- powerful high-level programming language for automation of imaging tasks
- SDK for seamless setup integration
- full control of HP and other spectrometer brands integrated into software suite



Quantum efficiency



Dark current



Software suite

Specifications

Sensor	back-illuminated CCD from e2v (grade 1), enhanced process, uncoated
Pixels	1024 x 255 *
Pixel size	26 x 26 μm
Image area	26.7 x 6.7 mm
Spectral rates	200/s full vertical bin, 1000/s crop mode
Minimum temperature	-60° C air cooled
Well depth	500 000 e ⁻ active area, 1 000 000 e ⁻ register
Read noise	12.5 e ⁻ typ. at 500kHz
Dark current	0.004 e ⁻ /px/s at -60°C
Linearity	>99%
Digitization	16bit
Interface flange	DN63CF / 4.5" or DN100CF / 6"
Vacuum compatibility	10 ⁻⁸ mbar
Communication interface	USB or Ethernet 10/100
Software Development Kit	Matlab, Labview, Visual Basic, C/C++

* other sensor formats available

Contact us

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