

EHD IMAGING GMBH

SciCam-Spectroscopy

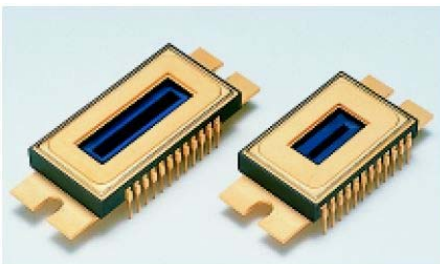
Compact TE-cooled Digital Imaging System



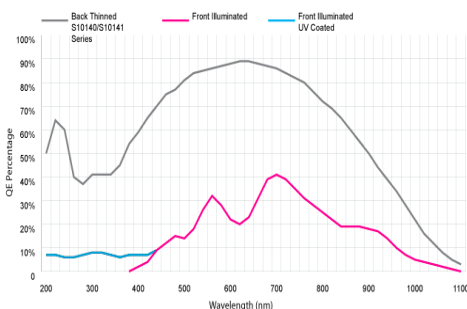
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Typical Spectral Response:



Spectroscopy cameras without shutter !

SciCam is smaller and lighter-weight than the competition, but outperforms them in key areas such as noise, frame quality, download speeds, bit-depth, and CCD cooling.

Typical performance and features include:

- -65 deg C Sustainable Cooling
- 500 KHz Download Speed
- Spectroscopy cameras w/o shutter
- Small Footprint (94 x 94 x 121,3mm)
- Liquid or Air Cooled Cooling Available
- RBI annihilator standard

Typical Applications:

- Spectroscopy
- UV Imaging
- Semiconductor Inspection
- DNA Sequencer
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SC1107SP

- Sensor Hermetically sealed
- Argon filled sensor chamber
- Small Form Factor
- High Download Speeds
- Best cooling performance
- Internal Frame Buffer
- USB2.0 Interface
- Binning and overscan
- Low noise, 16 Bit ADC

Specifications: SC1107SP

CCD Sensor:	Hamamatsu S10140-1107
CCD Type:	Backilluminated FFT
Array size:	2048 x 122
Color/monochrome:	monochrome
Coating	on request
Pixel size	12 μm
Active Area (H x V)	24,576 x 1,464 mm/24,62mm diagonal
Linear Full Well	75.000 e ⁻
Anti Blooming	none
Peak Quantum Efficiency	89%
Spectral Response	200—1000 nm
Camera Specifications:	
Interface	USB2.0
Digital Resolution	16 Bit
Max. Download Speed	500 KHz
Typ. System noise	10e ⁻ rms @ 500 KHz
Typ. Max. Cooling Temp.	65°C below Ambient
Typ. Dark current (@ 0°C MPP Mode)	typ. 0.04 e/pixel/s @ -40°C
Temp. Stability	0.1°C
CCD to Flange Distance	24,96mm
Operating Environment	-30°C to +45°C;
Power	12V
Shutter	none
Remote Triggering	Yes
Dimensions	94mm x 94mm x 121.3mm