

EHD IMAGING GMBH

SciCam-Spectroscopy

Compact TE-cooled Digital Imaging System

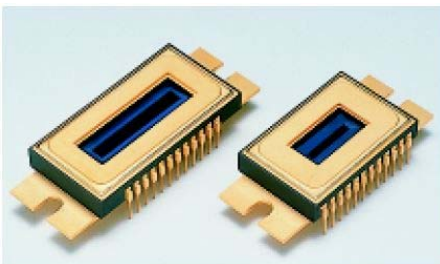
Preliminary



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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
- 1 MHz Download Speed
- Spectroscopy cameras w/o shutter
- Small Footprint (3.7 x 3.7 x 5in.)
- Liquid or Air Cooled Cooling Available
- RBI annihilator standard

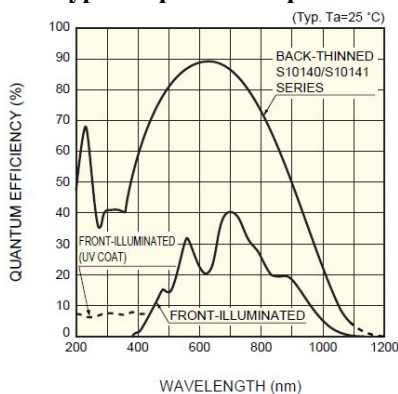
Typical Applications:

- Spectroscopy
- UV Imaging
- Semiconductor Inspection
- DNA Sequencer
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SC1109SP

- 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

Typical Spectral Response:



Specifications: SC1109SP

CCD Sensor:	Hamamatsu S10140-1109
CCD Type:	Backilluminated FFT
Array size:	2048 x 506
Color/monochrome:	monochrome
Coating	on request
Pixel size	12 μm
Active Area (H x V)	24,576 x 6,072 mm
Linear Full Well	200.000 e ⁻
Anti Blooming	1000X
Peak Sensor Quantum Efficiency	90%
Spectral Response	200—1000 nm
Camera Specifications:	
Interface	USB2.0
Digital Resolution	16 Bit
Max. Download Speed	1 MHz
Typ. System noise	8e ⁻ rms @ 1 MHz
Typ. Max. Cooling Temp.	60°C below Ambient
Typ. Dark current (@ 0°C MPP Mode)	typ. 5 e/pixel/s
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