

EHD IMAGING GMBH

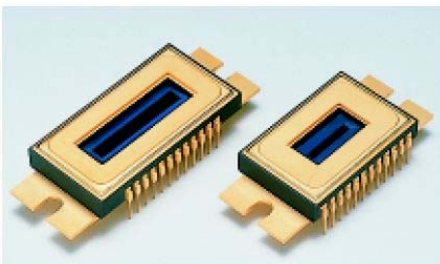
# SciCam-Spectroscopy

*Compact TE-cooled Digital Imaging System*

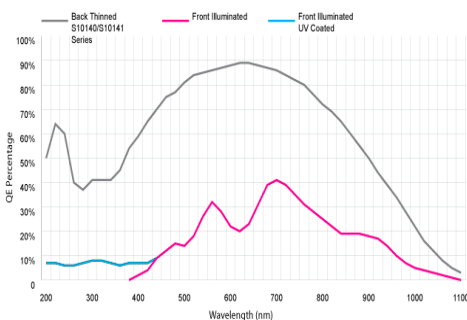
## EHD IMAGING GMBH

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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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## SC1108SP

- 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: SC1108SP

<b>CCD Sensor:</b>	Hamamatsu S10140-1108
<b>CCD Type:</b>	Backilluminated FFT
<b>Array size:</b>	2048 x 250
<b>Color/monochrome:</b>	monochrome
<b>Coating</b>	on request
<b>Pixel size</b>	12 $\mu\text{m}$
<b>Active Area (H x V)</b>	24,576 x 3,000 mm / 24,76
<b>Linear Full Well</b>	75.000 e <sup>-</sup>
<b>Anti Blooming</b>	none
<b>Peak Quantum Efficiency</b>	89%
<b>Spectral Response</b>	200—1000 nm
<b>Camera Specifications:</b>	
<b>Interface</b>	USB2.0
<b>Digital Resolution</b>	16 Bit
<b>Max. Download Speed</b>	500 KHz
<b>Typ. System noise</b>	10e <sup>-</sup> rms @ 500 KHz
<b>Typ. Max. Cooling Temp.</b>	65°C below Ambient
<b>Typ. Dark current</b>	typ. 0.04 e/pixel/s @ -40°C
<b>Temp. Stability</b>	0.1°C
<b>CCD to Flange Distance</b>	24,96mm
<b>Operating Environment</b>	-30°C to +45°C;
<b>Power</b>	12V
<b>Shutter</b>	None ( 45mm optional available )
<b>Remote Triggering</b>	Yes
<b>Dimensions</b>	94 x 94 x 121.3mm