

EHD IMAGING GMBH

# SciCam-Spectroscopy

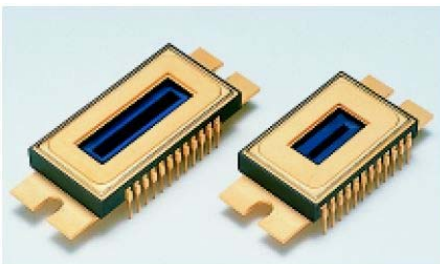
Compact TE-cooled Digital Imaging System

Preliminary

## EHD IMAGING GMBH

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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

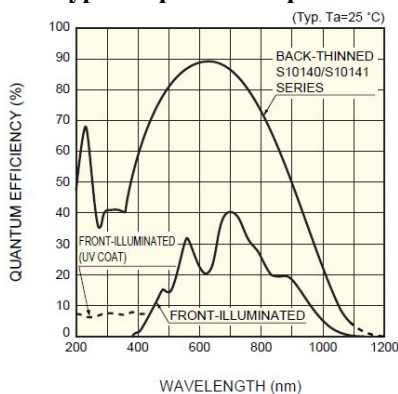
### Typical Applications:

- Spectroscopy
- UV Imaging
- Semiconductor Inspection
- DNA Sequencer

## SC1007SP

- 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: SC1007SP

<b>CCD Sensor:</b>	Hamamatsu S10140-1007
<b>CCD Type:</b>	Backilluminated FFT
<b>Array size:</b>	1024 x 122
<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>	12,288 x 1,464 mm
<b>Linear Full Well</b>	200.000 e <sup>-</sup>
<b>Anti Blooming</b>	1000X
<b>Peak Quantum Efficiency</b>	90%
<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>	1 MHz
<b>Typ. System noise</b>	10e <sup>-</sup> rms @ 1 MHz
<b>Typ. Max. Cooling Temp.</b>	60°C below Ambient
<b>Typ. Dark current ( @ 0°C MPP Mode)</b>	typ. 5 e/pixel/s
<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
<b>Remote Triggering</b>	Yes