

EHD IMAGING GMBH

SciCam-Spectroscopy

Compact TE-cooled Digital Imaging System

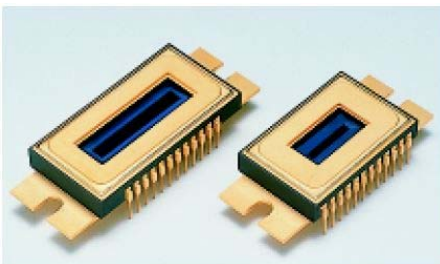
Preliminary



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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

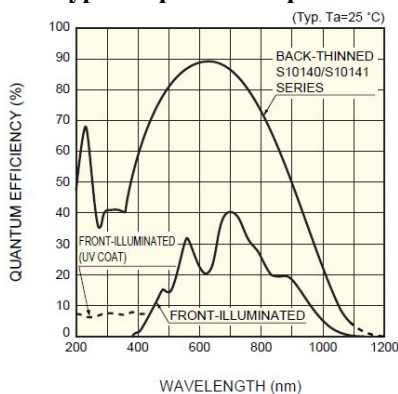
Typical Applications:

- Spectroscopy
- UV Imaging
- Semiconductor Inspection
- DNA Sequencer

SC1008SP

- 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: SC1008SP

| | |
|--|------------------------------|
| CCD Sensor: | Hamamatsu S10140-1008 |
| CCD Type: | Backilluminated FFT |
| Array size: | 1024 x 250 |
| Color/monochrome: | monochrome |
| Coating | on request |
| Pixel size | 12 μm |
| Active Area (H x V) | 12,288 x 3,000 mm |
| Linear Full Well | 200.000 e ⁻ |
| Anti Blooming | 1000X |
| Peak 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 | 10e ⁻ 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 |