

EHD IMAGING GMBH

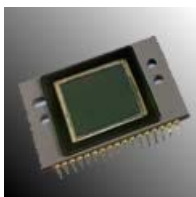
# SciCam

*Compact TE-cooled Digital Imaging System*

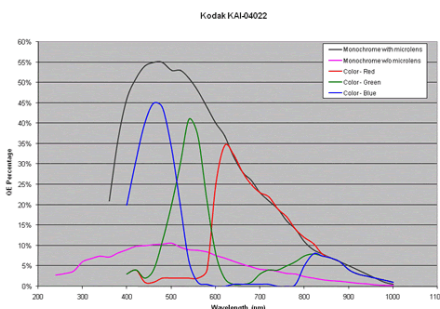
## EHD IMAGING GMBH

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### Typical Spectral Response:



Lens optional

## SC4022

The 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:

- max. -60° C Sustainable Cooling
- max.12 Million Pixels/Second Fast Download Speed
- Electronic Shutter Configuration
- Small Footprint (94 x 94 x 127mm)
- Liquid or Air Cooled Cooling Available
- RBI annihilator standard

### Typical Applications:

- X-ray Applications
- Astronomical Imaging
- Scientific Imaging
- Medical Applications
- Forensic

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

## Specifications: SC4022

<b>CCD Sensor:</b>	Kodak KAI-4022
<b>CCD Type:</b>	Interline Transfer
<b>Array size:</b>	2048 x 2048
<b>Color/monochrome:</b>	monochrome or color
<b>Coating</b>	AR coating
<b>Pixel size</b>	7,4 $\mu$ m
<b>Sensor Diagonal</b>	21,4 mm
<b>Linear Full Well</b>	40.000 e <sup>-</sup>
<b>Anti Blooming</b>	none
<b>Peak Quantum Efficiency</b>	55%
<b>Camera Specifications:</b>	
<b>Interface</b>	USB2.0
<b>Digital Resolution</b>	16 Bit
<b>Max. Download Speed</b>	12 MHz
<b>Typ. System noise</b>	8e <sup>-</sup> rms @ 1 MHz
<b>Typ. Max. Cooling Temp.</b>	55°C below Ambient
<b>Binning ( user-defined)</b>	X x Y ; 0-255 x 0-255
<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>	Electronic Shutter
<b>Remote Triggering</b>	Yes
<b>Min/Max Exposure time</b>	80 $\mu$ s - $\infty$
<b>Optical lens Interface</b>	Nikon F-Mount Bayonet ( 46,5mm Backfocus)