## KL4040 FI

## 4K x 4K at 23 fps

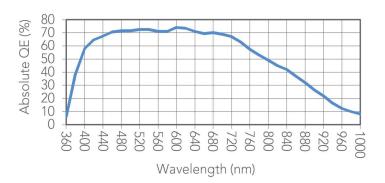
The KL4040 scientific CMOS camera has the same pixel size and imaging area as the popular KAF-16803 CCD, but with 1/3 the noise and 40% higher quantum efficiency. Kepler cooled sCMOS cameras provide ultra-high sensitivity, ultra-low noise, and high frame rates, all at game-changing price to performance ratio.

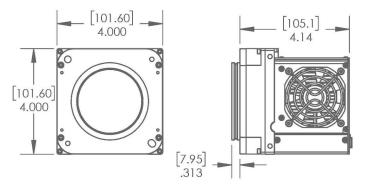
## Technical Data

Sensor Type	Front Illuminated CMOS
Sensor	GPixel GSense4040
Shutter Type	Rolling; Rolling with Global Reset
Active Pixels	4096 x 4096
Pixel Size (microns)	9 x 9 µm
Imaging Area (Diagonal)	36.8 X 36.8 mm (52 mm)
Full Well Capacity	70000 electrons
(e-) Typical Readout Noise	3.7 e-
Dynamic Range	85.2 dB
Frame Rate	23 fps (QSFP V2)
Cooling Method <sup>1</sup>	Air and Liquid
Max. Cooling (Air)	40°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	0.08 eps at -10C
Interface	USB 3.0 (Optional QSFP <sup>2</sup> )
Data Bit Depth	16 bit <sup>3</sup>
Optional Shutter	65mm
Optional Mounts	Medium Format Recommended (6x7)
Subarray Readout	Standard
External Trigger In/Out	Standard
SDK / Software	Kepler SDK / FLI Pilot
Weight	4 lbs (1.8 kg)

KL4040 without shutter

## Absolute Quantum Efficiency





See www.flicamera.com for alternate configurations

Finger Lakes Instrumentation www.flicamera.com USA 585-624-3760



<sup>2</sup> QSFP = Quad Small Form factor Pluggable: high speed fiber optic interface

<sup>3</sup> 16-bit data merged from two 12 bit converters

