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.

**Sensor Type**  Front illuminated
**Shutter Type**  Rolling; Rolling with Global Reset
**Active Pixels**  4096 x 4096
**Pixel Size**  9 x 9 microns
**Effective Area**  36.9 x 36.9 mm
**Sensor Diagonal**  52.1 mm
**Full Well Capacity**  70000 electrons
**Max. Frame Rate (QSFP)**  24 fps
**Max. Frame Rate (USB3)**  8 fps
**Read Noise (rolling)**  3.7 e-
**Dynamic Range**  86 dB
**Peak QE**  74% (CMT)
**Cooling**  Air and Liquid
**Maximum Cooling (Air)**  40ºC Below Ambient
**Dark Current**  0.15 eps at -20C
**Interface**  USB 3.0
**Interface (Optional)**  QSFP
d**Data Bit Depth**  16 bit
**Mount**  F-mount
**Video size**  3.3”
**Subarray Readout**  Yes
**Electromechanical Shutter**  Optional 65mm
**Ex Trigger In**  Yes

---

1 Liquid circulation connectors sold separately
2 SFP = Small Form factor Pluggable: high speed fiber optic interface
3 16-bit data merged from two 12 bit converters

---

**KL4040: 4K x 4K at 24 fps**

**Camera Applications:**
Orbital Debris Detection
Photocell Inspection
TEM

---

**Quality. Cooled. Cameras.**

Finger Lakes Instrumentation LLC  
www.flicamera.com · 1250 Rochester St. · Lima NY 14485 USA · 585-624-3760  
©2018 Finger Lakes Instrumentation LLC