



Kepler Cooled Scientific CMOS Cameras

The Ultimate in Sensitivity

PRELIMINARY

KL400 BI: 95% Peak QE, 1.6 e- Noise

The Kepler KL400 sCMOS camera represents the first release in a new family of Scientific CMOS cameras from Finger Lakes Instrumentation. The KL400 provides ultra-high sensitivity, ultra-low noise with high frame rates; all at game-changing price to performance ratio.

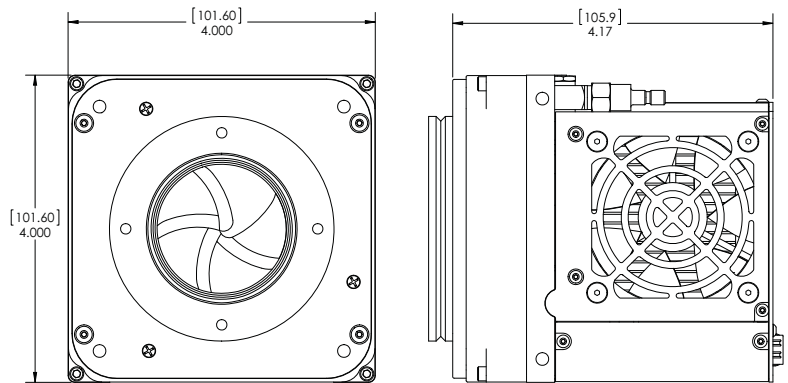
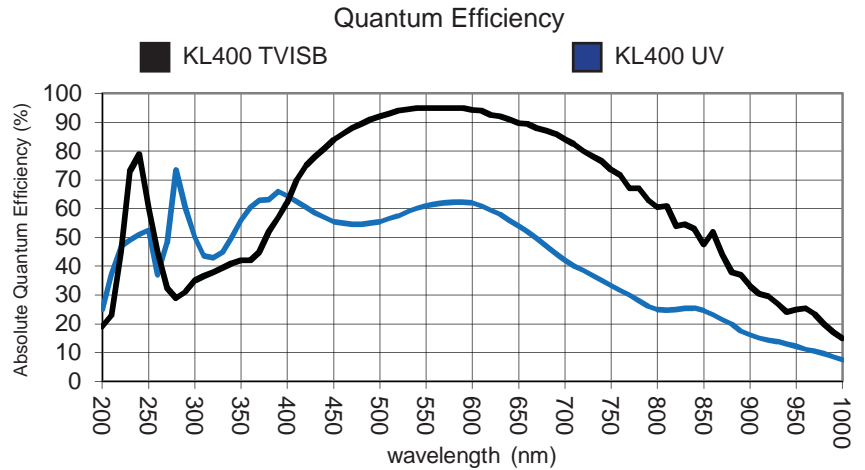


KL400 with Optional 45mm Shutter
Air & liquid cooling (standard)

Sensor Type	Back illuminated
Active Pixels	2048 x 2048
Pixel Size (microns)	11 x 11
Effective Area	22.5 x 22.5 mm
Sensor Diagonal	31.9 mm
Full Well Capacity	90000 electrons
Frame rate (rolling)	48 fps
	24 fps HDR
Read Noise (rolling)	1.6 e- HDR
Dynamic Range	93 dB HDR
Peak QE	95%
Cooling	Air and Liquid ¹
Maximum Cooling (Air)	45°C Below Ambient
Dark Current	0.6 eps at -20C
Interface	USB 3.0
Interface (Optional)	SFP ²
Data Bit Depth ³	16 bit
Mount	Optional F-mount
Video size	2.0"
Subarray Readout	Yes
Electromechanical Shutter	Optional 45mm
Ex Trigger In	Yes
Ex Trigger Out	Yes
Software	FLI

Applications:

- Orbital Debris Detection
- Photocell Inspection
- Forensic Sciences
- Super-Resolution Microscopy
- Confocal Microscopy
- Light Sheet Microscopy
- TIRF and GFP



¹ Liquid circulation adapters sold separately.

² SFP = Small Form factor Pluggable: high speed fiber optic interface

³ 16-bit data merged from two 12 bit converters

Quality. Cooled. Cameras.

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