Kepler CMOS Camera

KL400 FI

1.5 e- Noise RMS

The Kepler KL400 FI provides high sensitivity, ultra-low noise with high frame rates, all at a game-changing price to performance ratio. The front illuminated version does not have microlenses.

Also available with 45mm shutter

Technical Data

Sensor Type	Front Illuminated CMOS
Sensor	GPixel GSense400
Shutter Type	Rolling
Active Pixels	2048 x 2048
Pixel Size (microns)	11 x 11 µm
Imaging Area (Diagonal)	22.5 X 22.5 mm (31.8 mm)
Full Well Capacity (e-)	120000 electrons
Typical Readout Noise	1.5 e-
Dynamic Range	97.7 dB
Frame Rate	24 fps (Rolling HDR)
Cooling Method[1]	Air and Liquid
Max. Cooling (Air)	45°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	0.015 eps at -20C
Interface	USB 3.0 (Optional QSFP[2])
Data Bit Depth	16 bit[3]
Optional Shutter	45 mm
Optional Mounts	Nikon or Canon
Subarray Readout	Standard
External Trigger In/Out	Standard
SDK / Software	Kepler SDK (Open Source) /
Weight	3 lbs (1.3 kg)

[1] Liquid circulation connectors sold separately

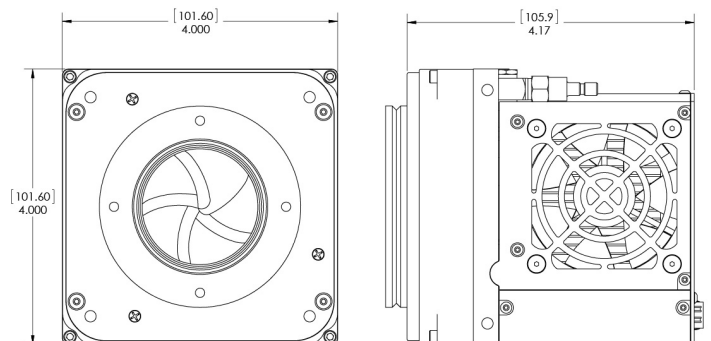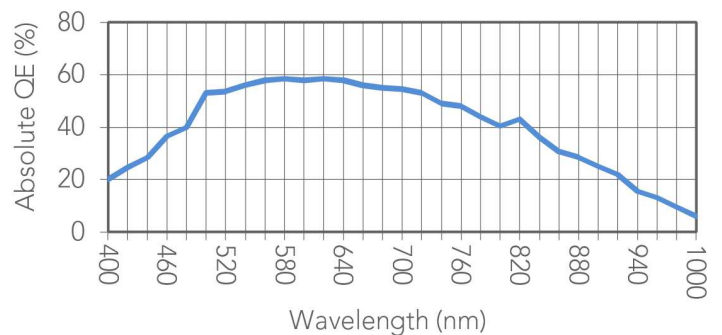[2] QSFP = Quad Small Form factor Pluggable: high speed fiber optic interface. Support for KL400 in Q2 2020.

[3] 16-bit data merged from two 12 bit converters

Absolute Quantum Efficiency

See www.flicamera.com for alternate configurations

MADE IN USA

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