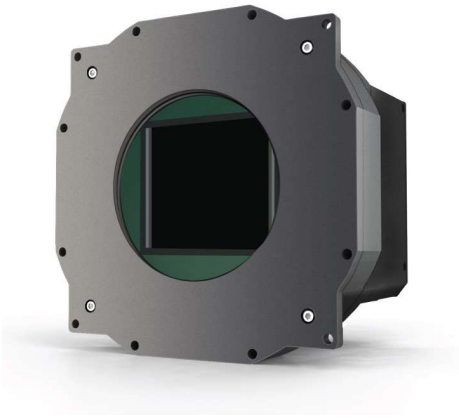
Kepler CMOS Camera

KL6060 BI

6K x 6K with 10 micron pixels

The KL6060 BI scientific CMOS camera has the same sensitivity and imaging area as the back-illuminated CCD230-84 CCD, but with a fraction of the noise even at multiple frames per second. Kepler cooled sCMOS cameras provide ultra-high sensitivity, ultra-low noise, and high frame rates, all at game-changing price to performance ratio.



Also available with 90mm shutter

Technical Data

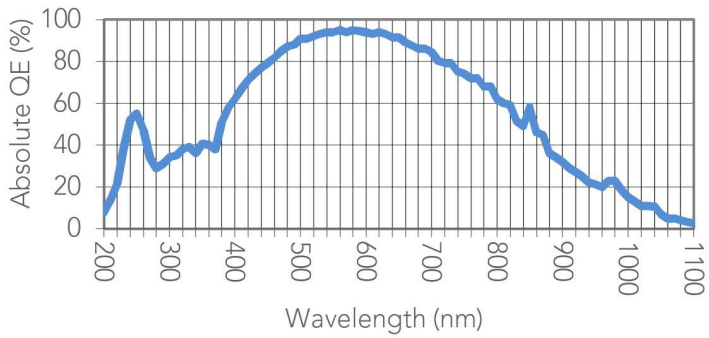
Sensor Type	Back Illuminated CMOS
Sensor	GPixel GSense6060 BI
Shutter Type	Rolling
Active Pixels	6144 x 6144
Pixel Size (microns)	10 x 10 µm
Imaging Area (Diagonal)	61.4 X 61.4 mm (86.9 mm)
Full Well Capacity (e-)	95000 electrons
Typical Readout Noise	3.0 e-
Dynamic Range	89.7 dB
Frame Rate (fps)	11 fps (QSFP)
Cooling Method[1]	Air and Liquid
Max. Cooling (Air)	45°C below ambient
Temperature Stability	0.1°C
Dark Current (typical)	0.1 eps at -20C
Interface	USB 3.0 (Optional QSFP[2])
Data Bit Depth	16 bit[3]
Optional Shutter	90mm
Optional Mounts	Medium Format Recommended (6x7)
Subarray Readout	Standard
External Trigger In/Out	Standard
SDK / Software	Kepler SDK (Open Source) /
Weight	8.2 lbs (3.7 kg)

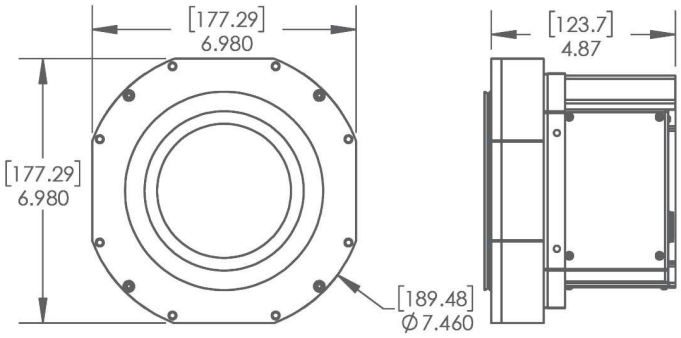
[1] Liquid circulation connectors sold separately

[2] QSFP = Quad Small Form factor Pluggable: high speed fiber optic interface

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

Absolute Quantum Efficiency





See FLIcamera.com for alternate configurations

MADE IN USA

Finger Lakes Instrumentation
FLIcamera.com
USA 585-624-3760