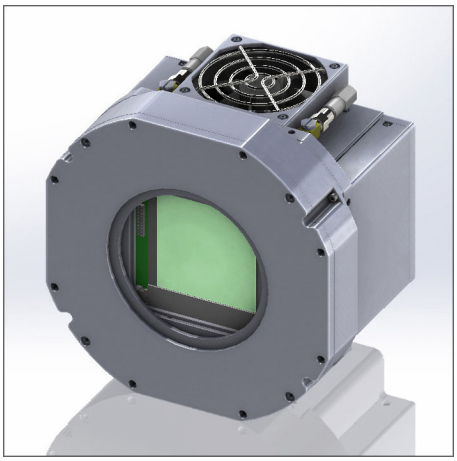
Kepler CMOS Camera

KL6060 FI

PRELIMINARY

6K x 6K with 10 micron pixels

The very large imaging area of the KL6060 FI scientific CMOS camera provides high sensitivity with low noise, even at multiple frames per second. The camera offers 4x the area of comparably priced 2K x 2K back illuminated CCD cameras.



Also available with 90mm shutter

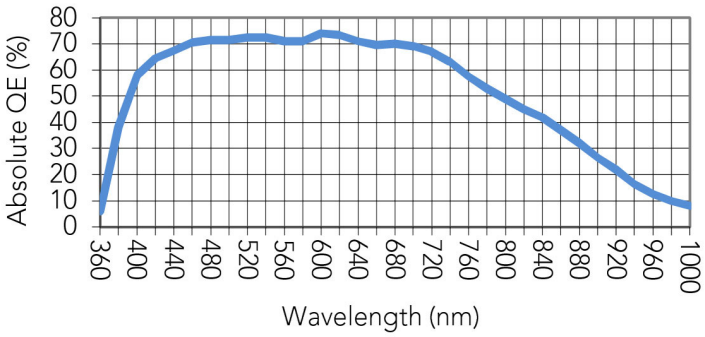
Technical Data	
Sensor Type	Front Illuminated CMOS
Sensor	GPixel GSense6060 FI
Shutter Type	Rolling
Active Pixels	6144 x 6200
Pixel Size (microns)	10 x 10 µm
Imaging Area (Diagonal)	61.4 X 62 mm (87.2 mm)
Full Well Capacity	135000 electrons
Typical Readout Noise	4.6 e-
Dynamic Range	89.0 dB
Frame Rate	19 fps (QSFP)
Cooling Method [1]	Air and Liquid
Max. Cooling (Air)	50°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 / FLI Pilot
Weight	8.2 lbs (3.7 kg)

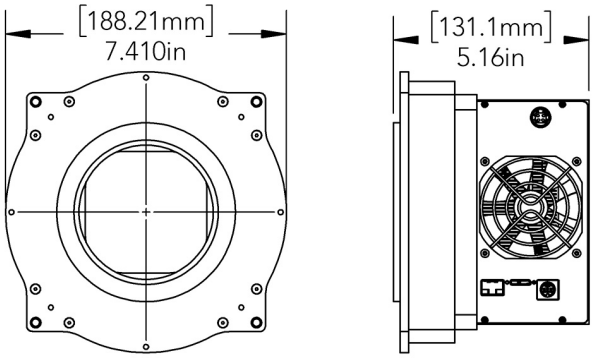
[1] Liquid circulation connectors sold separately

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

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

Absolute Quantum Efficiency





See www.flicamera.com for alternate configurations

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USA 585-624-3760