FINGER LAKES INSTRUMENTATION

KEPLER CMOS CAMERA

KL6060 BI.

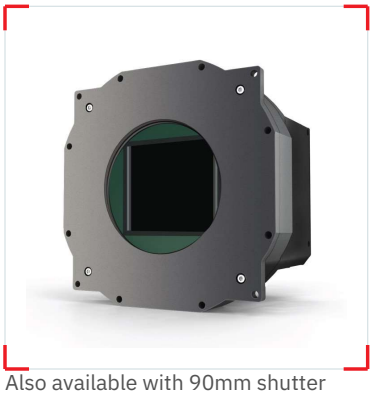
DATASHEET flicamera.com/models/kl6060-bi

PRODUCT PAGE

* MADE IN USA *

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

KEY SPECIFICATIONS

SENSOR	SIZE (MM)	RESOLUTION	PIXEL SIZE
GPixel GSense6060 BI	61.4 X 61.4 mm (86.9 mm)	6144 x 6144	10 x 10 µm

FULL WELL	READ NOISE	DARK CURRENT	BIT DEPTH
95000 electrons	3.0 e-	0.1 eps at -20C	16 bit

TECHNICAL DATA

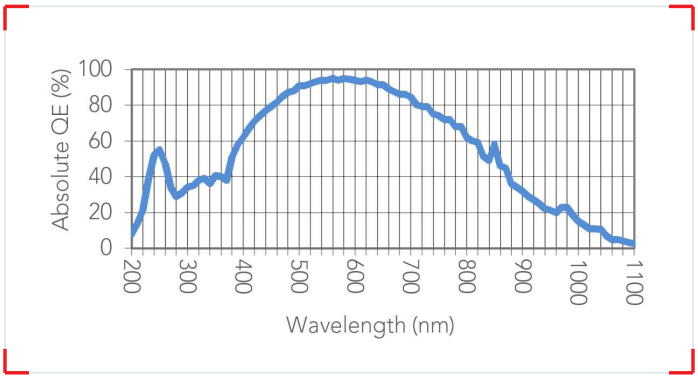
Sensor Type	Back Illuminated CMOS
Shutter Type	Rolling
Pixel Size (microns)	10 x 10 µm
Full Well Capacity (e-)	95000 electrons
Dynamic Range	89.7 dB
Cooling Method	Air and Liquid [1]
Temperature Stability	0.1°C
Interface	USB 3.0 (Optional QSFP [2])
Optional Shutter	90mm
Subarray Readout	Standard

Sensor	GPixel GSense6060 BI
Active Pixels	6144 x 6144
Imaging Area (Diagonal)	61.4 X 61.4 mm (86.9 mm)
Typical Readout Noise	3.0 e-
Frame Rate (fps)	11 fps (QSFP)
Max. Cooling (Air)	45°C below ambient
Dark Current (typical)	0.1 eps at -20C
Data Bit Depth	16 bit
Optional Mounts	Medium Format Recommended (6x7)
External Trigger In/Out	Standard

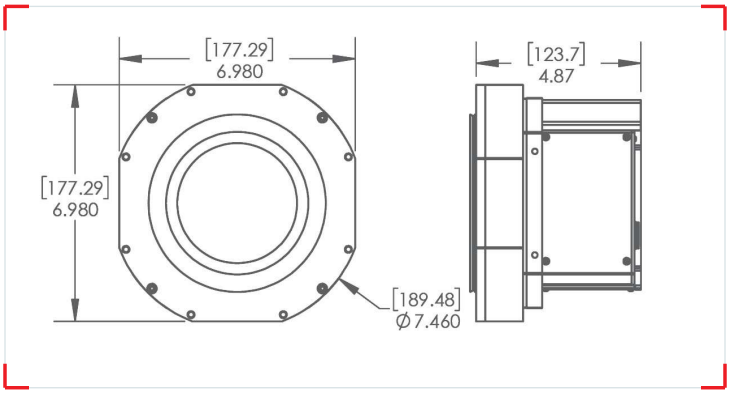
SDK / Software	Kepler SDK (Open Source) /	**Weight**	8.2 lbs (3.7 kg)

TECHNICAL FIGURES

Absolute quantum efficiency



Mechanical outline



NOTES AND OPERATING CONDITIONS

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.

See FLIcamera.com for alternate configurations

FINGER LAKES INSTRUMENTATION · MADE IN USA

Request a quote for KL6060 BI

REQUEST A QUOTE

flicamera.com/models/kl6060-bi · USA 585-624-3760