FINGER LAKES INSTRUMENTATION

KEPLER CMOS CAMERA

KL6060 FI.

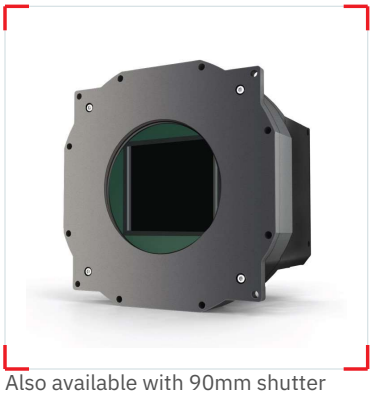
DATASHEET flicamera.com/models/kl6060-fi

MADE IN USA

PRODUCT PAGE

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

KEY SPECIFICATIONS

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

FULL WELL	READ NOISE	DARK CURRENT	BIT DEPTH
128000 electrons	4.6 e-	0.07 eps at -20C	16 bit

TECHNICAL DATA

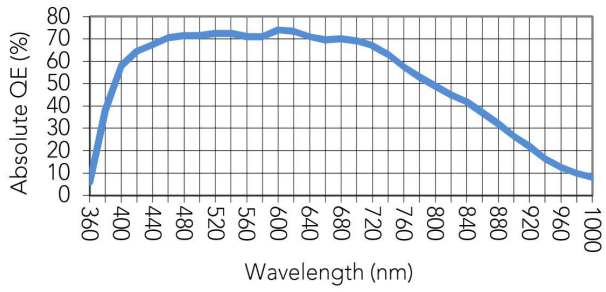
Sensor Type	Front Illuminated CMOS
Shutter Type	Rolling
Pixel Size (microns)	10 x 10 µm
Full Well Capacity (e-)	128000 electrons
Dynamic Range	88.5 dB
Cooling Method	Air and Liquid [1]
Temperature Stability	0.1°C
Interface	USB 3.0 (Optional QSFP [2])
Optional Shutter	90mm
Subarray Readout	Standard

Sensor	GPixel GSense6060 FI
Active Pixels	6144 x 6144
Imaging Area (Diagonal)	61.4 X 61.4 mm (86.9 mm)
Typical Readout Noise	4.6 e-
Frame Rate (fps)	19 fps (QSFP)
Max. Cooling (Air)	45°C below ambient
Dark Current (typical)	0.07 eps at -20C
Data Bit Depth	16 bit
Optional Mounts	Medium Format Recommended (6x7)
External Trigger In/Out	Standard

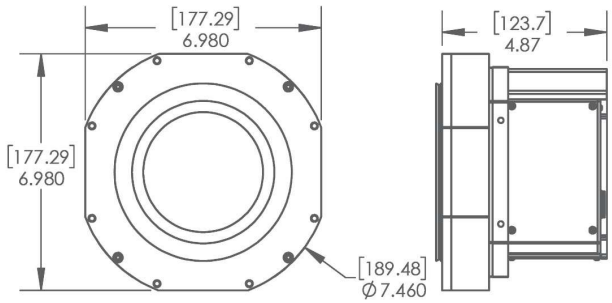
SDK / Software	Kepler SDK / FLI Pilot	**Weight**	8.1 lbs (3.6 kg)

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

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