

Kepler CMOS Camera

KL6060 BI

PRELIMINARY

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.

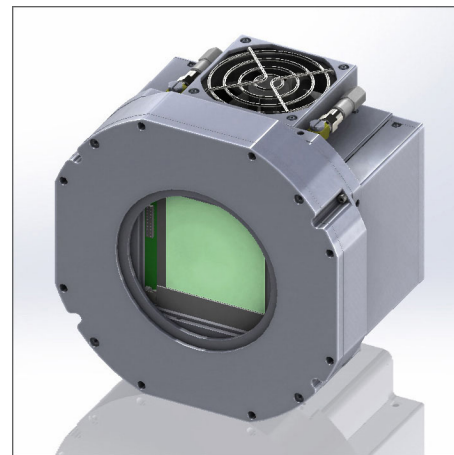
Technical Data

| | |
|-----------------------------|---------------------------------------|
| 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 (86.8 mm) |
| Full Well Capacity | 102000 electrons |
| Typical Readout Noise | 3.0 e- |
| Dynamic Range | 90.3 dB |
| Frame Rate | 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

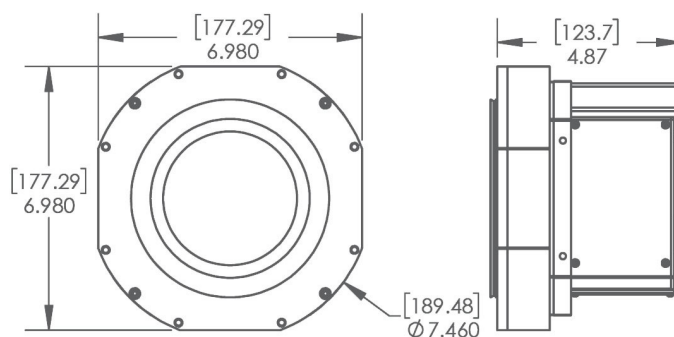
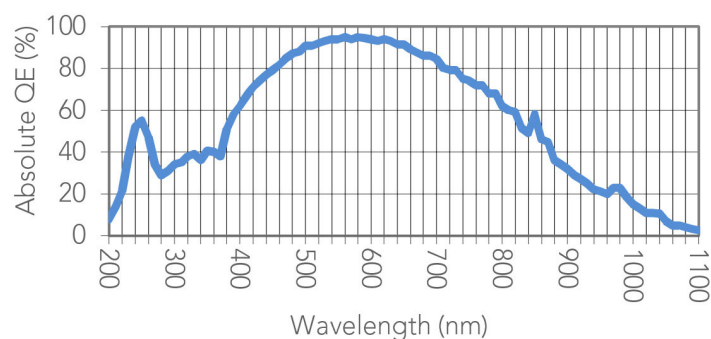
² QSFP = Quad Small Form factor Pluggable: high speed fiber optic interface

³ 16-bit data merged from two 12 bit converters



Also available with 90mm shutter

Absolute Quantum Efficiency



See www.flicamera.com for alternate configurations